

Zoznam publikačnej činnosti

Mgr. Martin Motola, PhD.

ADC Vedecké práce v zahraničných karentovaných časopisoch

ADC01 Motola, Martin (aut) [UKOPRCAG] (30%) - Satrapinskyy, Leonid (aut) [UKOMFKEF] (15%) - Roch, Tomáš (aut) [UKOMFKEF] (10%) - Šubrt, Jan (aut) (10%) - Kupčík, Jaroslav (aut) (5%) - Klementová, Mariana (aut) (5%) - Jakubičková, Michaela (aut) (5%) - Peterka, František (aut) (5%) - Plesch, Gustáv (aut) [UKOPRCAG] (15%): Anatase TiO₂ nanotube arrays and titania films on titanium mesh for photocatalytic NO_x removal and water cleaning
Lit.: 30 zázň., 6 obr., 1 tab.

In: Catalysis Today. - Vol. 287, June (2017), s. 59-64. - ISSN 0920-5861

Registrované v:

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Indikátor časopisu:

IF (JCR) 2017=4,667

Kvartil Q:

wos-jcr -- Q1 [chemistry, applied] ; Q1 [chemistry, physical] ; Q1 [engineering, chemical] -- 2017

Ohlasy (26):

[o1] 2017 ~ Jiang, R. - Wen, W. - Luo, Y. - Wu, J. M.: Low temperature synthesis of few-layer titanate nanobelts on Ti mesh and the hot-water induced transformations to highly photocatalytic active titania nanorods. In: Journal of Environmental Chemical Engineering, Vol. 5, No. 5, 2017, s. 4676-4683 -- SCI ; SCOPUS

[o1] 2018 ~ Balbuena, J. - Cruz-Yusta, M. - Pastor, A. - Sanchez, L.: alpha-Fe₂O₃/SiO₂ composites for the enhanced photocatalytic NO oxidation. In: Journal of Alloys and Compounds, Vol. 735, 2018, s. 1553-1561 -- SCI ; SCOPUS

[o1] 2018 ~ Chen, S. H. - Hsiao, Y. C. - Chiu, Y. J. - Tseng, Y. H.: A Simple Route in Fabricating Carbon-Modified Titania Films with Glucose and Their Visible-Light-Responsive Photocatalytic Activity. In: Catalysts, Vol. 8, No. 5, 2018, Art.No. 178 -- SCI ; SCOPUS

[o1] 2018 ~ Galenda, A. - Visentin, F. - Gerbasi, R. - Favaro, M. - Bernardi, A. - El Habra, N.: Evaluation of self-cleaning photocatalytic paints: Are they

effective under actual indoor lighting systems? In: Applied Catalysis B-Environmental, Vol. 232, 2018, s. 194-204 -- SCI ; SCOPUS

[o1] 2018 ~ Nikokavoura, A. - Trapalis, C.: Graphene and g-C₃N₄ based photocatalysts for NO_x removal: A review. In: Applied Surface Science, Vol. 430, 2018, s. 18-52 -- SCI ; SCOPUS

[o1] 2018 ~ Waclawek, S. - Padil, V. V. T. - Cernik, M.: Major Advances and Challenges in Heterogeneous Catalysis for Environmental Applications: A Review. In: Ecological Chemistry and Engineering S-Chemia I Inzynieria Ekologiczna S, Vol. 25, No. 1, 2018, s. 9-34 -- SCI ; SCOPUS

[o1] 2019 ~ da Rocha Segundo, I. G. - Landi, S. J. - Batista Oliveira, S. M. - de Freitas, E. F. - Carneiro, J. A. O.: Photocatalytic asphalt mixtures: Mechanical performance and impacts of traffic and weathering abrasion on photocatalytic efficiency. In: Catalysis Today, Vol. 326, 2019, s. 94-100 -- SCI ; SCOPUS

[o1] 2019 ~ Heydari, G. - Hollman, J. - Achari, G. - Langford, C. H.: Comparative Study of Four TiO₂-Based Photocatalysts to Degrade 2,4-D in a Semi-Passive System. In: Water, Vol. 11, No. 3, 2019, Art. No. 621 -- SCI ; SCOPUS

[o1] 2019 ~ Parnicka, P. - Mazierski, P. - Lisowski, W. - Klimczuk, T. - Nadolna, J. - Zaleska-Medynska, A.: A new simple approach to prepare rare-earth metals-modified TiO₂ nanotube arrays photoactive under visible light: Surface properties and mechanism investigation. In: Results in Physics, Vol. 12, 2019, s. 412-423 -- SCI ; SCOPUS

[o1] 2019 ~ Sugiawati, V. A. - Vacandio, F. - Galeyeva, A. - Kurbatov, A. P. - Djenizian, T.: Enhanced Electrochemical Performance of Electropolymerized Self-Organized TiO₂ Nanotubes Fabricated by Anodization of Ti Grid. In: Frontiers in Physics, Vol. 7, 2019, Art. No. 179 -- SCI ; SCOPUS

[o1] 2019 ~ Yan, D. - Fang, W. - Li, F. - Jin, Z. - Xu, L.: Dual modification of TiO₂ nanorod arrays with SiW₁₁Co and Ag nanoparticles for enhanced photocatalytic activity under simulated sunlight. In: Photochemical & Photobiological Sciences, Vol. 18, No. 11, 2019, s. 2804-2813 -- SCI ; SCOPUS

[o1] 2020 ~ Escobedo, S. - Lasa, H.: Photocatalysis for air treatment processes: Current technologies and future applications for the removal of organic pollutants and viruses. In: Catalysts, Vol. 10, No. 9, 2020, Art. No. 966 -- SCI ; SCOPUS

[o1] 2020 ~ Karunakaran, G. - Cho, E. B.: Role of block copolymer template for tailoring crystal structure and band gap of titania in mesoporous silica and organosilica particles. In: Ceramics International, Vol. 46, No. 2, 2020, s. 2163-2172-- SCI ; SCOPUS

- [o1] 2020 ~ Tang, H. - Shang, Q. - Tang, Y. - Yi, X. - Wei, Y. - Yin, K. - Liu, M. - Liu, C.: Static and continuous flow photoelectrocatalytic treatment of antibiotic wastewater over mesh of TiO₂ nanotubes implanted with g-C₃N₄ nanosheets. In: Journal of Hazardous Materials, Vol. 384, 2020, Art. No. 121248 -- SCI ; SCOPUS
- [o1] 2021 ~ Jia, Y. - Liu, P. - Wang, Q. - Wu, Y. - Cao, D. - Qiao, Q.-A.: Construction of Bi₂S₃-BiOBr nanosheets on TiO₂ NTA as the effective photocatalysts: Pollutant removal, photoelectric conversion and hydrogen generation. In: Journal of Colloid and Interface Science, Vol. 585, 2021, s. 459-469 -- SCI ; SCOPUS
- [o1] 2021 ~ Montakhab, E. - Rashchi, F. - Sheibani, S.: Effect of cathode size on the morphology of the anodized TiO₂ nanotube photocatalyst. In: Journal of Ultrafine Grained and Nanostructured Materials, Vol. 54, No. 1, 2021, s. 85-92 --SCOPUS
- [o1] 2021 ~ Ovcharov, M. L. - Granchak, V. M.: Photocatalytic Conversion of Nitrogen Oxides: Current State and Perspectives: a Review. In: Theoretical and Experimental Chemistry, Vol. 57, No. 1, 2021, s. 30-63 -- SCOPUS
- [o1] 2021 ~ Sharma, S. K. - Singh, V. P. - Bhargava, A. - Park, S.-H. - Chauhan, V. S. - Vaish, R.: Surface crystallization of BiOCl on 2Bi₂O₃ B₂O₃ glasses for photocatalytic applications. In: Journal of Materials Science: Materials in Electronics, Vol. 32, No. 8, 2021, s. 10520-10531 -- SCOPUS
- [o1] 2021 ~ Dao, P. H. - Nguyen, T. V. - Nguyen, T. A. - Doan, T. Y. O. - Hoang, T. H. - Le, T. H. - Nguyen-Tri, P.: Acrylic polymer/TiO₂ nanocomposite coatings: Mechanism for photo-degradation and solar heat reflective recovery. In: Materials Chemistry and Physics, Vol. 272, 2021, Art. No. 124984 -- SCI
- [n1] 2021 zz ~ Sopha, H. - Kashimbetova, A. - Hromadko, L. - Saldan, I. - Celko, L. - Montufar, E.B. - Macak, J.M.: Anodic TiO₂ Nanotubes on 3D-Printed Titanium Meshes for Photocatalytic Applications. In: Nano Letters, Vol. 21, No. 20, 2021, s. 8701-8706 -- SCOPUS
- [n1] 2022 zz ~ Liu, Y. - Chen, R. - Zhu, X. - Ye, D. - Yang, Y. - Li, J. - Wang, D. - An, L. - Liao, Q.: 3D radially-grown TiO₂ nanotubes/Ti mesh photoanode for photocatalytic fuel cells towards simultaneous wastewater treatment and electricity generation. In: Journal of Cleaner Production, Vol. 381, 2022, Art. No. 135200 -- SCOPUS
- [n1] 2022 zz ~ Galstyan, V. - Macak, J.M. - Djenizian, T.: Anodic TiO₂ nanotubes: A promising material for energy conversion and storage. In: Applied Materials Today, Vol. 29, 2022, Art. No. 101613 -- SCOPUS
- [n1] 2022 zz ~ Sopha, H. - Baudys, M. - Hromadko, L. - Lhotka, M. - Pavlinak, D. - Krysa, J. - Macak, J.M.: Scaling up anodic TiO₂ nanotube layers

- Influence of the nanotube layer thickness on the photocatalytic degradation of hexane and benzene. In: Applied Materials Today, Vol. 29, 2022, Art. No. 101567 -- SCOPUS

[n1] 2022 zz ~ Yang, Y. - Zheng, X. - Ren, W. - Liu, J. - Fu, X. - Meng, S. - Chen, S. - Cai, C.: Recent advances in special morphologic photocatalysts for NO_x removal. In: Frontiers of Environmental Science and Engineering, Vol. 16, No. 11, 2022, Art. No. 137 -- SCOPUS

[n1] 2022 zz ~ Pesovski, B. - Krstic, V. - Dimitrijevic, S.: Electrochemical Characteristics of the Anodized Titanium Oxide Films in Sulfuric Acid. In: Journal of New Materials for Electrochemical Systems, Vol. 25, No. 4, 2022, s. 259-267 --SCOPUS

[n1] 2022 zz ~ Ehm, C. - Frohmuller, M.O. - Flassak, T. - Stephan, D.: On-site reduction of nitrogen oxides at an emission hotspot using actively vented photocatalytic reactors in a highway tunnel. In: SN Applied Sciences, Vol. 4, No. 5, 2022, Art. No. 153 -- SCOPUS

ADC02 Motola, Martin (aut) [UKOPRCAG] (60%) - Sopha, Hanna (aut) (10%) - Krbal, Miloš (aut) (5%) - Hromádko, Luděk (aut) (5%) - Olmrová Zmrhalová, Zuzana (aut) (5%) - Plesch, Gustáv (aut) [UKOPRCAG] (5%) - Macak, Jan M. (aut) (10%): Comparison of photoelectrochemical performance of anodic single- and double-walled TiO₂ nanotube layers
In: Electrochemistry Communications. - Roč. 97 (2018), s. 1-5. - ISSN (print) 1388-2481

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Indikátor časopisu:

IF (JCR) 2018=4.197

Kvartil Q:

wos-jcr -- Q2 [Electrochemistry] -- 2018

Ohlasy (11):

[o1] 2019 ~ Mo, C.H. - Wei, H.X. - Wang, T.J.: Journal of the Chinese Chemical Society, Vol. 66, No. 7, 2019, s. 740-747 -- SCI

[o1] 2019 ~ Niu, D.M. - Han, A.J. - Cheng, H. - Ma, S.H. - Tian, M.M. - Liu, L.: Chemical Physics Letters, Vol. 735, November, 2019, Art. No. UNSP 136776 -- SCI

[o1] 2020 ~ Tsuchiya, H. - Schmuki, P.: Less known facts and findings about TiO₂ nanotubes. In: Nanoscale, Vol. 12, No. 15, 2020, s. 8119-8132 -- SCOPUS

[o1] 2020 ~ Wang, Y. - Zhang, X. - You, S. - Hu, Y.: One-step electrosynthesis of visible light responsive double-walled alloy titanium dioxide nanotube arrays for use in photocatalytic degradation of dibutyl phthalate. In: RSC Advances, Vol.10, No. 36, 2020, s. 21238-21247 -- SCOPUS

[n1] 2021 zz ~ Lincho, J. - Gomes, J. - Kobylanski, M. - Bajorowicz, B. - Zaleska-Medynska, A. - Martins, R.C.: TiO₂ nanotube catalysts for parabens mixture degradation by photocatalysis and ozone-based technologies. In: Process Safety and Environmental Protection, Vol. 152, 2021, s. 601-613 -- SCOPUS

[n1] 2022 zz ~ Zhao, Z. - Wang, S. - Zhang, J. - Liu, L. - Jiang, L. - Xu, X. - Song, Y.: A phosphoric anion layer inhibits electronic current generation and nanotube growth during anodization of titanium. In: Nanoscale Advances, Vol. 4, No.21, 2022, s. 4597-4605 -- SCOPUS

[n1] 2022 zz ~ Wtulich, M. - Szkoda, M. - Gajowiec, G. - Jurak, K. - Trykowski, G. - Lisowska-Oleksiak, A.: Hydrothermal modification of TiO₂ nanotubes in water and alkali metal electrolytes (LiNO₃, NaNO₃, KNO₃) - Direct evidence for photocatalytic activity enhancement. In: Electrochimica Acta, Vol. 426, 2022, Art. No. 140802 -- SCOPUS

[n1] 2022 zz ~ Savchuk, T.P. - Kytina, E.V. - Konstantinova, E.A. - Kytin, V.G. - Pinchuk, O. - Tarhanov, A.K. - Zaitsev, V.B. - Maniecki, T.: Photocatalytic CO₂ Conversion Using Anodic TiO₂ Nanotube-Cu₂O Composites. In: Catalysts, Vol. 12, No. 9, 2022, Art. No. 1011 -- SCOPUS

[n1] 2022 zz ~ Lincho, J. - Zaleska-Medynska, A. - Martins, R.C. - Gomes, J.: Nanostructured photocatalysts for the abatement of contaminants by photocatalysis and photocatalytic ozonation: An overview. In: Science of the Total Environment, Vol. 837, 2022, Art. No. 155776 -- SCOPUS

[n1] 2022 zz ~ Konstantinova, E.A. - Kytina, E.V. - Zaitsev, V.B. - Martyshov, M.N. - Savchuk, T.P. - Kamaleev, M.F.: Photoelectron Properties of Multi-Walled and Single-Walled Titania a Nanotubes. In: Russian Journal of Physical Chemistry B, Vol. 16, No. 4, 2022, s. 797-803 -- SCOPUS

[n1] 2022 zz ~ Savchuk, T. - Gavrilin, I. - Konstantinova, E. - Dronov, A. - Volkov, R. - Borgardt, N. - Maniecki, T. - Gavrilov, S. - Zaitsev, V.: Anodic TiO₂ nanotube arrays for photocatalytic CO₂ conversion: Comparative photocatalysis and EPR study. In: Nanotechnology, Vol. 33, No. 5, 2022, Art. No. 055706 -- SCOPUS

ADC03 Motola, Martin (aut) [UKOPRCAG] (40%) - Satrapinsky, Leonid (aut) [UKOMFKEF] (15%) - Čaplovičová, Mária (aut) (13%) - Roch, Tomáš (aut) [UKOMFKEF] (6%) - Grančič, Branislav (aut) [UKOMFKEF] (5%) - Greguš, Ján (aut) [UKOMFKEF] (3%) - Čaplovič, Ľubomír (aut) (2%) - Plesch, Gustáv

(aut) [UKOPRCAG] (10%) - Gregor, Maroš (aut) [UKOMFKEF] (6%):
Enhanced photocatalytic activity of hydrogenated and vanadium doped TiO₂
nanotube arrays grown by anodization of sputtered Ti layers
Lit.: 59 zázn.

In: Applied Surface Science. - č. 434 (2018), s. 1257-1265. - ISSN (print)
0169-4332

článok

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Indikátor časopisu:

IF (JCR) 2018=5,155

Kvartil Q:

wos-jcr -- Q1 [Physics, applied] -- 2018

wos-jcr -- Q1 [Physics, condensed matter] -- 2018

wos-jcr -- Q1 [Chemistry, physical] -- 2018

wos-jcr -- Q1 [Materials science, coatings & films] -- 2018

Ohlasy (26):

[o1] 2018 ~ Zheng, Q.S. - Zhang, Y.M. - Liu, T. - Huang, J. - Xue, N.N.:
Removal Process of Structural Oxygen from Tetrahedrons in Muscovite during
Acid Leaching of Vanadium-Bearing Shale. In: Minerals, Vol. 8, No. 5, 2018,
Art. No. 208 -- SCI; SCOPUS

[o1] 2018 ~ Yu, M. - Zhao, X.N. - Xiong, L.L. - Xue, B. - Kong, X.X. - Liu,
J.H. - Li, S.M.: Improvement of Corrosion Protection of Coating System via
Inhibitor Response Order. In: Coatings, Vol. 8, No. 10, 2018, Art. No. 365 --
SCI ; SCOPUS

[o1] 2018 ~ Zhou, J. - Feng, B. - Lu, X. - Duan, K.: Novel one-step fabrication
of highly ordered Mo-doped TiO₂ nanotubes arrays with enhanced visible light
catalytic activity. In: Journal of Materials Science - Materials in Electronics,
Vol. 29, No. 21, 2018, s. 18388-18396 -- SCI ; SCOPUS

[o1] 2019 ~ An, G.W. - Dhandole, L.K. - Park, H. - Bae, H.S. - Mahadik, M.A.
- Jang, J.S.: Enhanced Charge Transfer Process in Morphology Restructured
TiO₂ Nanotubes via Hydrochloric Acid Assisted One Step In-Situ
Hydrothermal Approach. In: ChemCatChem, Vol. 11, No. 22, 2019, s. 5606-
5614 -- SCI ; SCOPUS

[o1] 2019 ~ Arulkumar, S. - Parthiban, S. - Goswami, A. - Varma, R. S. -
Naushad, M. - Gawande, M. B.: Low temperature processed titanium oxide
thin-film using scalable wire-bar coating. In: Materials Research Express, Vol.
6, No. 12, 2019, Art. No. 126427 -- SCI ; SCOPUS

- [o1] 2019 ~ Kuang, P.Y. - He, M. - Zhu, B.C. - Yu, J.G. - Fan, K. - Jaroniec, M.: OD/2D NiS₂/V-MXene composite for electrocatalytic H₂ evolution. In: Journal of Catalysis, Vol. 375, July, 2019, s. 8-20 -- SCI ; SCOPUS
- [o1] 2019 ~ Li, H. - Chen, Z.H. - Zhao, L. - Yang, G.D.: Synthesis of TiO₂@ZnIn₂S₄ hollow nanospheres with enhanced photocatalytic hydrogen evolution. In: Rare Metals, Vol. 38, No. 5, 2019, s. 420-427 -- SCI ; SCOPUS
- [o1] 2019 ~ Shahan, M. - Ahmed, A.M. - Shehata, N. - Betiha, M.A. - Rabie, A.M.: Ni-doped and Ni/Cr co-doped TiO₂ nanotubes for enhancement of photocatalytic degradation of methylene blue. In: Journal of Colloid and Interface Science, Vol. 555, November, 2019, s. 31-41 -- SCI ; SCOPUS
- [o1] 2019 ~ Wu, T.W. - Kong, W.H. - Zhang, Y. - Xing, Z. - Zhao, J.X. - Wang, T. - Shi, X.F. - Luo, Y.L. - Sun, X.P.: Greatly Enhanced Electrocatalytic N₂ Reduction on TiO₂ via V Doping. In: Small Methods, Vol. 3, No. 11, 2019, Art. No.1900356 -- SCI ; SCOPUS
- [o1] 2019 ~ Zhou, S.H. - Liu, S.K. - Su, K. - Jia, K.L.: Facile synthesis of Ti³⁺ self-doped and sulfur-doped TiO₂ nanotube arrays with enhanced visible-light photoelectrochemical performance. In: Journal of Alloys and Compounds, Vol. 804, October, 2019, s. 10-17 -- SCI ; SCOPUS
- [o1] 2020 ~ Dong, Z. - Zhou, R. - Xiong, L. - Li, H. - Liu, Q. - Zheng, L. - Guo, Z. - Deng, Z.: Preparation of a Ti_{0.7}W_{0.3}O₂/TiO₂ nanocomposite interfacial photocatalyst and its photocatalytic degradation of phenol pollutants in wastewater. In: Nanoscale Advances, Vol. 2, No. 1, 2020, s. 425-437 -- SCI ; SCOPUS
- [o1] 2020 ~ Li, L. - Li, B.Y. - Liu, H. - Li, M.Q. - Wang, B.H.: Photoelectrochemical sensing of hydrogen peroxide using TiO₂ nanotube arrays decorated with RGO/CdS. In: Journal of Alloys and Compounds, Vol. 815, January, 2020, Art. No. 152241-- SCI ; SCOPUS
- [o1] 2020 ~ Thongpool, V. - Phunpueok, A. - Jaiyen, S. - Sornkwan, T.: Synthesis and photocatalytic activity of copper and nitrogen co-doped titanium dioxide nanoparticles. In: Results in Physics, Roč. 16, 2020, Art. No. 102948 -- SCI ; SCOPUS
- [o1] 2020 ~ Thulasi, K. M. - Manikkoth, S. T. - Paravannoor, A. - Palantavida, S. - Bhagiyalakshmi, M. - Vijayan, B. K.: Facile synthesis of TNT-VO₂(M) nanocomposites for high performance supercapacitors. In: Journal of Electroanalytical Chemistry, Vol. 878, 2020, Art. No. 114644 -- SCI ; SCOPUS
- [o1] 2020 ~ Zu, G.N. - Li, H.Y. - Jiao, P. - Li, P.P. - Wang, X.X. - Wang, J.S.: Effect of TiO₂ Nanotube Arrays Morphology/Structure on Photocatalytic Hydrogen Production. In: Journal of Nanoscience and Nanotechnology, Vol. 20, No. 2, 2020, s. 852-857 -- SCI

[o1] 2021 ~ Faisal, M. - Iqbal, A. - Adam, F. - Jothiramalingam, R.: Effect of Cu doping on the photocatalytic activity of InVO₄ for hazardous dye photodegradation under LED light irradiation and its mechanism. In: Water Science and Technology, Vol. 84, No. 3, 2021, s. 576-595 -- SCI ; SCOPUS

[o1] 2021 ~ Guo, T. - Oztug, N. A. K. - Han, P. - Ivanovski, S. - Gulati, K.: Old is Gold: Electrolyte Aging Influences the Topography, Chemistry, and Bioactivity of Anodized TiO₂ Nanopores. In: ACS Applied Materials and Interfaces, Vol. 13, No. 7, 2021, s. 7897-7912 -- SCI ; SCOPUS

[o1] 2021 ~ Musa, M. Z. - Mamat, M. H. - Vasimalai, N. - Shameem Banu, I. B. - Parimon, N. - Hassan, H. - Malek, M. F. - Rusop, M.: Humidity Sensing Performance of V: TiO₂ 3D Nanostructure-based Humidity Sensor. In: 4th National Conference on Wind and Earthquake Engineering (NCWE 2020) : IOP Conference Series: Earth and Environmental Science, Vol. 682, No. 1. Bristol : IOP Publishing, 2021, Art. No. 012073 -- SCOPUS

[o1] 2021 ~ Sadovnikov, A. A. - Nechaev, E. G. - Beltiukov, A. N. - Gavrilov, A. I. - Makarevich, A. M. - Boytsova, O. V.: Titania Mesocrystals: Working Surface in Photocatalytic Reactions. In: Russian Journal of Inorganic Chemistry, Vol. 66, No. 4, 2021, s. 460-467 -- SCI ; SCOPUS

[o1] 2021 ~ Shan, D. - Tao, B. - Fang, C. - Shao, H. - Xie, L. - Feng, J. - Yan, G.: Anodization of titanium in reduced graphene oxide-citric acid electrolyte. In: Results in Physics, Vol. 24, 2021, Art. No. 104060 -- SCI ; SCOPUS

[n1] 2022 zz ~ Saleh, M.R. - Thabet, S.M. - El-Gendy, R.A. - Saleh, M. - El-Bery, H.M.: MIL-53 (Fe) for constructing hydrogenated Fe₃O₄@C@TiO₂ double core-shell nanocrystals as superior bifunctional photocatalyst. In: Journal of Photochemistry and Photobiology A: Chemistry, Vol. 432, 2022, Art. No. 114125 -- SCOPUS

[n1] 2022 zz ~ Yan, Y. - Qu, H. - Zheng, X. - Zhao, K. - Li, X. - Yao, Y. - Liu, Y.: Amorphous core/shell Ti-doped SnO₂ with synergistically improved N₂ adsorption/activation and electrical conductivity for electrochemical N₂ reduction. In: Chinese Chemical Letters, Vol. 33, No. 10, 2022, s. 4655-4658 -- SCOPUS

[n1] 2022 zz ~ Liu, Y. - Zhu, J. - Wang, Z. - Yan, X. - Zhang, J. - Zhang, W. - Xu, H. - Marken, F. - Feng, J. - Hou, B. - Yan, W. - Li, M. - Ren, Z.: Towards energy level cascaded quantum armours combating metal corrosion. In: Applied Surface Science, Vol. 593, 2022, Art. No. 153369 -- SCOPUS

[n1] 2022 zz ~ Aljaafari, A.: Effect of Metal and Non-metal Doping on the Photocatalytic Performance of Titanium dioxide (TiO₂): A Review. In: Current Nanoscience, Vol. 18, No. 4, 2022, s. 499-519 -- SCOPUS

[n1] 2022 zz ~ Zheng, Q. - Zhang, Y. - Xue, N.: Occurrence State of Vanadium in Typical Black Shale by DFT. In: Xiyou Jinshu/Chinese Journal of Rare Metals, Vol. 46, No. 4, 2022, s. 488-496 -- SCOPUS

[n1] 2022 zz ~ Boytsova, O.V. - Drozhzhin, O.A. - Petukhov, D.I. - Chumakova, A.V. - Sobol, A.G. - Beltyukov, A.N. - Eliseev, A.A. - Bosak, A.B.: One-step synthesis of vanadium-doped anatase mesocrystals for Li-ion battery anodes. In: Nanotechnology, Vol. 33, No. 5, 2022, Art. No. 055603 -- SCOPUS

ADC04 Krbal, Miloš (aut) (40%) - Ng, Siowwoon (aut) (20%) - Motola, Martin (aut) [UKOPRCAG] (15%) - Hromádka, Luděk (aut) (5%) - Dvorak, Filip (aut) (5%) - Prokop, Vit (aut) (5%) - Sopha, Hanna (aut) (5%) - Macak, Jan M. (aut) (5%): Sulfur treated 1D anodic TiO₂ nanotube layers for significant photo- and electroactivity enhancement

Lit.: 56 záz.

In: Applied Materials Today. - č. 17 (2019), s. 104-111. - ISSN (print) 2352-9407

Registrované v:

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Indikátor časopisu:

IF (JCR) 2019=8.352

Kvartil Q:

wos-jcr -- Q1 [Materials science, multidisciplinary] -- 2019

Ohlasy (4):

[o1] 2020 ~ Liu, Y. - Lai, M. - Long, L. - Zhang, Y. - Luo, L. - Shen, F. - Zhang, X. - Zhang, S. - Deng, S. - Chen, X.: Photonic TiO₂ photoelectrodes for environmental protections: Can color be used as a quick selection indicator for photoelectrocatalytic performance?. In: Journal of Hazardous Materials, Vol. 398, 2020, Art. No. 122867 -- SCOPUS

[o1] 2020 ~ Kadam, R.L. - Kim, Y. - Gailkwad, S. - Chang, M. - Tarte, N.H. - Han, S.: Catalytic decolorization of rhodamine B, Congo red, and crystal violet dyes, with a novel niobium oxide anchored molybdenum (Nb-O-Mo). In: Catalysts, Vol.10, No. 5, 2020, Art. No. 491 -- SCOPUS

[o1] 2020 ~ Xu, Q. - Wang, Y. - Chi, M. - Hu, W. - Zhang, N. - He, W.: Porous polymer-titanium dioxide/copper composite with improved photocatalytic activity toward degradation of organic pollutants in wastewater: Fabrication and characterization as well as photocatalytic activity evaluation. In: Catalysts, Vol. 10, No. 3, 2020, Art. No. 310 -- SCOPUS

[n1] 2022 zz ~ Baudino, L. - Zaccagnini, P. - Garino, N. - Serrapede, M. - Laurenti, M. - Pedico, A. - Pirri, C.F. - Lamberti, A.: Stable and Reversible Lithium Storage Properties of LiTiOx Nanotubes for Electrochemical Recovery from Aqueous Solutions. In: ChemElectroChem, Vol. 9, No. 10, 2022, Art. No. e202101652 -- SCOPUS

ADC05 Motola, Martin (aut) [UKOPRCAG] (45%) - Baudys, Michal (aut) (5%) - Zazpe, Raul (aut) (5%) - Krbal, Miloš (aut) (5%) - Michalička, Jan (aut) (5%) - Rodriguez-Pereira, Jhonatan (aut) (5%) - Pavliňák, David (aut) (5%) - Přikryl, Jan (aut) (5%) - Hromádka, Luděk (aut) (5%) - Sopha, Hanna (aut) (5%) - Krýsa, Josef (aut) (5%) - Macak, Jan M. (aut) (5%): 2D MoS2 nanosheets on 1D anodic TiO2 nanotube layers: an efficient co-catalyst for liquid and gas phase photocatalysis

Lit.: 54 záz. n.

In: Nanoscale. - Roč. 11, č. 48 (2019), s. 23126-23131. - ISSN (print) 2040-3364

Registrované v:

CCC Current Content Connect

SCO SCOPUS

WOS CC Web of Science Core Collection

Indikátor časopisu:

IF (JCR) 2019=6.895

Kvartil Q:

wos-jcr -- Q1 [Chemistry, multidisciplinary] -- 2019

wos-jcr -- Q1 [Materials science, multidisciplinary] -- 2019

wos-jcr -- Q1 [Physics, applied] -- 2019

Ohlasy (18):

[o1] 2020 ~ Lei, Y. - Guo, P. - Jia, M. - Wang, W. - Liu, J. - Zhai, J.: One-step photodeposition synthesis of TiO2 nanobelts/MoS2 quantum dots/rGO ternary composite with remarkably enhanced photocatalytic activity. In: Journal of Materials Science, Vol. 55, No. 30, 2020, s. 14773-14786 -- SCOPUS

[o1] 2020 ~ Bao, L. - Yuan, Y.-J.: Highly dispersed BiOCl decahedra with a highly exposed (001) facet and exceptional photocatalytic performance. In: Dalton Transactions, Vol. 49, No. 33, 2020, s. 11536-11542 -- SCOPUS

[o1] 2020 ~ Abidi, M. - Hajjaji, A. - Bouzaza, A. - Trablesi, K. - Makhoulf, H. - Rtimi, S. - Assadi, A.A. - Bessais, B.: Simultaneous removal of bacteria and volatile organic compounds on Cu2O-NPs decorated TiO2 nanotubes: Competition effect and kinetic studies. In: Journal of Photochemistry and Photobiology A: Chemistry, Vol. 400, 2020, Art. No. 112722 -- SCOPUS

[o1] 2020 ~ Cheng, J.-B. - Zhao, H.-B. - Cao, M. - Li, M.-E. - Zhang, A.-N. - Li, S.-L. - Wang, Y.-Z.: Banana Leaflike C-Doped MoS₂ Aerogels toward Excellent Microwave Absorption Performance. In: ACS Applied Materials and Interfaces, Vol. 12, No. 23, 2020, s. 26301-26312 -- SCOPUS

[o1] 2020 ~ Huang, S. - You, Z. - Jiang, Y. - Zhang, F. - Liu, K. - Liu, Y. - Chen, X. - Lv, Y.: Fabrication of ultrathin MoS₂ nanosheets and application on adsorption of organic pollutants and heavy metals. In: Processes, Vol. 8, No. 5, 2020, Art. No. 504 -- SCOPUS

[n1] 2021 zz ~ Yang, X. - Martinson, A.B.F. - Elam, J.W. - Shao, L. - Darling, S.B.: Water treatment based on atomically engineered materials: Atomic layer deposition and beyond. In: Matter, Vol. 4, No. 11, 2021, s. 3515-3548 -- SCOPUS

[n1] 2021 zz ~ Li, T. - Zhang, P. - He, H. - Wang, Z. - Tu, X. - Dionysiou, D.D.: Highly efficient photoelectrocatalytic degradation of cefotaxime sodium on the MoSe₂/TiO₂ nanotubes photoanode with abundant oxygen vacancies. In: Journal of Solid State Chemistry, Vol. 303, 2021, Art. No. 122455 -- SCOPUS

[n1] 2021 zz ~ Yang, J.J. - Xing, Y.Q. - Wu, Z. - Huang, P. - Liu, L.: Ultrathin molybdenum disulfide (MoS₂) film obtained in atomic layer deposition: A mini-review. In: Science China Technological Sciences, Vol. 64, No. 11, 2021, s. 2347-2359-- SCOPUS

[n1] 2021 zz ~ Velasquez, D.A.P. - Sousa, F.L.N. - Soares, T.A.S. - Caires, A.J. - Freitas, D.V. - Navarro, M. - Machado, G.: Boosting the performance of TiO₂ nanotubes with ecofriendly AgIn₅Se₈ quantum dots for photoelectrochemical hydrogen generation. In: Journal of Power Sources, Vol. 506, 2021, Art. No. 230165 -- SCOPUS

[n1] 2021 zz ~ Liang, H. - Guo, J. - Yu, M. - Zhou, Y. - Zhan, R. - Liu, C. - Niu, J.: Porous loofah-sponge-like ternary heterojunction g-C₃N₄/Bi₂WO₆/MoS₂ for highly efficient photocatalytic degradation of sulfamethoxazole under visible-light irradiation. In: Chemosphere, Vol. 279, 2021, Art. No. 130552 -- SCOPUS

[n1] 2021 zz ~ Hao, Y. - Min, Z. - Guo, H. - Shi, P. - Min, Y. - Fan, J. - Xu, Q.: Energy band engineering and interface transfer strategies to optimize photocatalytic hydrogen evolution performance. In: Applied Surface Science, Vol. 546, 2021, Art. No. 149137 -- SCOPUS

[n1] 2021 zz ~ Mattinen, M. - Leskela, M. - Ritala, M.: Atomic Layer Deposition of 2D Metal Dichalcogenides for Electronics, Catalysis, Energy Storage, and Beyond. In: Advanced Materials Interfaces, Vol. 8, No. 6, 2021, Art. No. 2001677 --SCOPUS

[n1] 2021 zz ~ Liang, Z. - Dong, X.: Fabrication of layered Fe₂P-Cd_{0.5}Zn_{0.5}S nanoparticles with a reverse heterojunction for enhanced photocatalytic hydrogen evolution. In: Journal of Colloid and Interface Science, Vol. 583, 2021, s. 196-203-- SCOPUS

[n1] 2021 zz ~ Li, Y. - Ma, J. - Liu, Z. - Jin, D. - Jiao, G. - Guo, Y. - Wang, Q. - Zhou, J. - Sun, R.: Fabrication of porous ultrathin carbon nitride nanosheet catalysts with enhanced photocatalytic activity for N- And O-heterocyclic compound synthesis. In: New Journal of Chemistry, Vol. 45, No. 1, 2021, s. 365-372 -- SCOPUS

[n1] 2022 zz ~ Mutlag, A.S. - Rafiee, E. - Khodayari, M. - Eavani, S.: Glass coated-nanostructure semiconductor TiO₂/RGO/MoS₂ for dye removal and disinfection of wastewater: Design and construction of a novel fixed-bed photocatalytic reactor. In: Materials Science in Semiconductor Processing, Vol. 148, 2022, Art. No. 106821 -- SCOPUS

[n1] 2022 zz ~ Wang, Q. - Zhu, S. - Zhao, S. - Li, C. - Wang, R. - Cao, D. - Liu, G.: Construction of Bi-assisted modified CdS/TiO₂ nanotube arrays with ternary S-scheme heterojunction for photocatalytic wastewater treatment and hydrogen production. In: Fuel, Vol. 322, 2022, Art. No. 124163 -- SCOPUS

[n1] 2022 zz ~ Fu, W. - Zhan, Q. - Yu, Y. - Meng, X. - Tang, M. - Wang, Y. - Sun, Y. - Dai, Y.: Surfactant-Free and Microporous AlOOH/Al₂O₃ Nanosheets on TiO₂-Based Nanofibers: A Sustained-Release Dominated Topotactic Transformation. In: ChemNanoMat, Vol. 8, No. 8, 2022, Art. No. e202100459 -- SCOPUS

[n1] 2022 zz ~ Jiao, Y. - Wang, S. - Yin, J. - Sun, Y. - Li, X. - Liu, Y.: Construction and Properties of All-Solid-State Z-Scheme MoS₂/RGO/Fe₂O₃ Composites. In: Kuei Suan Jen Hsueh Pao/Journal of the Chinese Ceramic Society, Vol. 50, No. 5, 2022, s. 1263-1274 -- SCOPUS

ADC06 Beketova, Darya (aut) (35%) - Motola, Martin (aut) [UKOPRCAG] (20%) - Sopa, Hanna (aut) (5%) - Michalička, Jan (aut) (5%) - Čičmancová, Veronika (aut) (5%) - Dvorak, Filip (aut) (5%) - Hromádka, Luděk (aut) (5%) - Frumarová, Božena (aut) (5%) - Stoica, Mihai (aut) (5%) - Macak, Jan M. (aut) (10%): One-Step Decoration of TiO₂ Nanotubes with Fe₃O₄ Nanoparticles: Synthesis and Photocatalytic and Magnetic Properties [elektronický dokument] Lit.: 70 záz.

In: ACS Applied Nano Materials [elektronický dokument]. - Roč. 3, č. 2 (2020), s. 1553-1563 [online]. - ISSN (print) 2574-0970

Registrované v:

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Indikátor časopisu:

IF (JCR) 2020=5.097

Kvartil Q:

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2020

wos-jcr -- Q2 [Nanoscience & nanotechnology] -- 2020

Ohlasy (30):

[o1] 2020 ~ Azeez, N.A. - Saravanan, M. - Chandar, N.R.K. - Vishaal, M.K. - Deepa, V.S.: Enhancing the Aspirin Loading and Release Efficiency of Silver Oxide Nanoparticles Using Oleic Acid-based Bio-Surfactant from *Enteromorpha intestinalis*. In: Applied Organometallic Chemistry, Vol. 34, No. 11, 2020, Art. No. e5934 -- SCOPUS

[o1] 2020 ~ Kubiak, A. - Kubacka, M. - Gabala, E. - Dobrowolska, A. - Synoradzki, K. - Siwinska-Ciesielczyk, K. - Czaczyk, K. - Jesionowski, T.: Hydrothermally assisted fabrication of TiO₂-Fe₃O₄ composite materials and their antibacterial activity. In: Materials, Vol. 13, No. 21, 2020, Art. No. 4715 - - SCOPUS

[o1] 2020 ~ Marc, M. - Najder-Kozdrowska, L. - Guskos, N. - Zolnierkiewicz, G. - Montero, A.M. - Dudek, M.R.: The use of ultra-small Fe₃O₄ magnetic nanoparticles for hydrothermal synthesis of Fe³⁺-doped titanate nanotubes. In: Materials, Vol.13, No. 20, 2020, Art. No. 4612 -- SCOPUS

[o1] 2020 ~ Zhang, Y. - Hu, H. - Kang, W. - Qiu, G. - Liang, R. - Deng, L. - Yuan, H.: Enhancing hydrogen evolution by photoelectrocatalysis of water splitting over a CdS flowers-loaded TiO₂ nanotube array film on the Ti foil substrate. In: Ceramics International, Vol. 46, No. 11, 2020, s. 17606-17613 -- SCOPUS

[o1] 2020 ~ Tao, Q. - Huang, X. - Bi, J. - Wei, R. - Xie, C. - Zhou, Y. - Yu, L. - Hao, H. - Wang, J.: Aerobic oil-phase cyclic magnetic adsorption to synthesize 1d Fe₂O₃@TiO₂ nanotube composites for enhanced visible-light photocatalytic degradation. In: Nanomaterials, Vol. 10, No. 7, 2020, Art. No. 1345 -- SCOPUS

[o1] 2020 ~ Faroughi Niya, H. - Hazeri, N. - Fatahpour, M. - Maghsoodlou, M.T.: Fe₃O₄@THAM-piperazine: a novel and highly reusable nanocatalyst for one-pot synthesis of 1,8-dioxo-octahydro-xanthenes and benzopyrans. In: Research on Chemical Intermediates, Vol. 46, No. 7, 2020, s. 3651-3666 -- SCOPUS

[n1] 2021 zz ~ Simon, C. - Blosser, A. - Eckardt, M. - Kurz, H. - Weber, B. - Zobel, M. - Marschall, R.: Magnetic properties and structural analysis on spinel MnFe₂O₄ nanoparticles prepared via non-aqueous microwave synthesis. In:

Zeitschrift für Anorganische und Allgemeine Chemie, Vol. 647, No. 22, 2021, s. 2061-2072 -- SCOPUS

[n1] 2021 zz ~ Cui, X. - Li, H. - Yang, Z. - Li, Y. - Zhang, P. - Zheng, Z. - Wang, Y. - Li, J. - Zhang, X.: A novel CaIn₂S₄/TiO₂NTAs heterojunction photoanode for highly efficient photocathodic protection performance of 316 SS under visible light. In: Nanotechnology, Vol. 32, No. 29, 2021, Art. No. 395702 -- SCOPUS

[n1] 2021 zz ~ Velasquez, D.A.P. - Sousa, F.L.N. - Soares, T.A.S. - Caires, A.J. - Freitas, D.V. - Navarro, M. - Machado, G.: Boosting the performance of TiO₂ nanotubes with ecofriendly AgIn₅Se₈ quantum dots for photoelectrochemical hydrogen generation. In: Journal of Power Sources, Vol. 506, 2021, Art. No. 230165 -- SCOPUS

[n1] 2021 zz ~ Prakash, J. - Samriti - Kumar, A. - Dai, H. - Janegitz, B.C. - Krishnan, V. - Swart, H.C. - Sun, S.: Novel rare earth metal-doped one-dimensional TiO₂ nanostructures: Fundamentals and multifunctional applications. In: Materials Today Sustainability, Vol. 13, 2021, Art. No. 100066 -- SCOPUS

[n1] 2021 zz ~ Hatefi, R. - Younesi, H. - Mashinchian-Moradi, A. - Nojavan, S.: A facile decoration of anatase Fe₃O₄/TiO₂ nanocomposite with graphene quantum dots: Synthesis, characterization, and photocatalytic activity. In: Advanced Powder Technology, Vol. 32, No. 7, 2021, s. 2410-2422 -- SCOPUS

[n1] 2021 zz ~ Shirazi-Fard, S. - Mohammadpour, F. - Zolghadr, A.R. - Klein, A.: Encapsulation and Release of Doxorubicin from TiO₂ Nanotubes: Experiment, Density Functional Theory Calculations, and Molecular Dynamics Simulation. In: Journal of Physical Chemistry B, Vol. 125, No. 21, 2021, s. 5549-5558 -- SCOPUS

[n1] 2021 zz ~ Li, H. - Hou, Y. - Li, L.: Tunable design of yolk-shell ZnFe₂O₄@C composites for enhancing electromagnetic wave absorption. In: Powder Technology, Vol. 378, 2021, s. 216-226 -- SCOPUS

[n1] 2021 zz ~ Siddique, J.A. - Numan, A.: Perspective Future Development of Nanomaterials. In: Engineering Materials. Cham : Springer, 2021, S. 319-343 - - SCOPUS

[n1] 2021 zz ~ Vu, D.K.N. - Nguyen, D.K.V.: Gamma Irradiation-Assisted Synthesis of Silver Nanoparticle-Embedded Graphene Oxide-TiO₂ Nanotube Nanocomposite for Organic Dye Photodegradation. In: Journal of Nanomaterials, Vol. 2021, 2021, Art.No. 6679637 -- SCOPUS

[n1] 2021 zz ~ Tao, Q. - Bi, J. - Huang, X. - Wei, R. - Wang, T. - Zhou, Y. - Hao, H.: Fabrication, application, optimization and working mechanism of Fe₂O₃ and its composites for contaminants elimination from wastewater. In: Chemosphere, Vol.263, 2021, Art. No. 127889 -- SCOPUS

[n1] 2022 zz ~ Bhullar, S. - Goyal, N. - Gupta, S.: In-vitro pH-responsive release of imatinib from iron-supplement coated anatase TiO₂ nanoparticles. In: Scientific Reports, Vol. 12, No. 1, 2022, Art. No. 4600 -- SCOPUS

[n1] 2022 zz ~ Madima, N. - Kefeni, K.K. - Mishra, S.B. - Mishra, A.K. - Kuvarega, A.T.: Fabrication of magnetic recoverable Fe₃O₄/TiO₂ heterostructure for photocatalytic degradation of rhodamine B dye. In: Inorganic Chemistry Communications, Vol. 145, 2022, Art. No. 109966 -- SCOPUS

[n1] 2022 zz ~ Fallahnejad, Z. - Bakeri, G. - Ismail, A.F.: Overcoming the trade off between the permeation and rejection of TFN nanofiltration membranes through embedding magnetic inner surface functionalized nanotubes. In: Process Safety and Environmental Protection, Vol. 165, 2022, s. 815-840 -- SCOPUS

[n1] 2022 zz ~ Heltina, D. - Randa, D.G. - Naufal, M.B.A. - Partama, A. - Komalasari,: Performance evaluation of graphene (ctab)/tio₂/fe₃o₄ composite on phenol degradation. In: Rasayan Journal of Chemistry, Vol. 15, No. 3, 2022, s. 2148-2154-- SCOPUS

[n1] 2022 zz ~ Li, W. - Zhang, H. - Song, Y. - Li, W. - Chen, W. - Wu, H.: Effect of the crystalline structure of cotton cellulose on the photocatalytic activities of cotton fibers immobilized with TiO₂ nanoparticles. In: Cellulose, Vol. 29, No. 11, 2022, s. 6441-6459 -- SCOPUS

[n1] 2022 sk ~ Mundekkad, D. - Alex, A.V.: Analysis of structural and biomimetic characteristics of the green-synthesized Fe₃O₄ nanozyme from the fruit peel extract of Punica granatum. In: Chemical Papers, Vol. 76, No. 6, 2022, s. 3863-3878 --SCOPUS

[n1] 2022 zz ~ Fu, C. - Wang, X. - Xue, F. - Zhu, P. - Zhou, W. - Ge, S. - Yu, J.: Laser ablative TiO₂ and tremella-like CuInS₂ nanocomposites for robust and ultrasensitive photoelectrochemical sensing of let-7a. In: Microchimica Acta, Vol.189, No. 4, 2022, Art. No. 145 -- SCOPUS

[n1] 2022 zz ~ Lin, Y. - Qian, Q. - Chen, Z. - Dinh Tuan, P. - Feng, D.: Fabrication of high specific surface area TiO₂ nanopowders by anodization of porous titanium. In: Electrochemistry Communications, Vol. 136, 2022, Art. No. 107234 --SCOPUS

[n1] 2022 zz ~ Zhu, S. - Cui, Y. - Wang, X. - Liu, Y. - Chen, W. - Zhang, Y. - Wang, Q.: TiO₂ NTAs decorated with thin CuBi₂O₄ nanosheets for efficient photocatalytic dye degradation and hydrogen generation. In: Ceramics International, Vol.48, No. 5, 2022, s. 6627-6637 -- SCOPUS

[n1] 2022 zz ~ Lv, X. - Jiao, S. - Cui, L. - Wei, Z. - Wang, B. - Wang, W. - Zhang, Q. - Tan, Y. - Pang, G. - Feng, S.: Facile Preparation of Chitosan-modified Mesoporous Titanium Dioxide Film on Fused-silica Capillary for

Selective Enrichment of Phosphopeptides. In: ChemNanoMat, Vol. 8, No. 2, 2022, Art. No. e202100460 -- SCOPUS

[n1] 2022 zz ~ Shahi, H. - Kaur, J. - Vaidya, S.: Designing Nanostructured Materials through Self-Assembly and their Applications. In: Journal of The Institution of Engineers (India): Series C, Vol. 103, No. 1, 2022, s. 135-142 -- SCOPUS

[n1] 2022 zz ~ Tumbelaka, R.M. - Istiqomah, N.I. - Mabarroh, N. - Suharyadi, E.: Green Synthesis of Fe₃O₄/TiO₂ Nanoparticles Using Extracts of Moringa oleifera: Microstructural and Optical Properties. In: Solid State Phenomena, Vol. 332. Bäch: Trans Tech Publications Ltd., 2022, S. 91-99 -- SCOPUS

[n1] 2022 zz ~ Dharmendra, G. - Sahoo, J.K. - Hota, A. - Sahoo, S.K.: Adsorptive Sequestration of toxic Congo red dye from aqueous solution using Fe₃O₄/sugarcane bagasse biochar nanocomposite. In: ECS Transactions, Vol. 107, No. 1, 2022, s.5127-5144 -- SCOPUS

[n1] 2022 zz ~ Selvakumar, K. - Wang, Y. - Lu, Y. - Tian, B. - Zhang, Z. - Hu, J. - Raja, A. - Arunpandian, M. - Swaminathan, M. - Dai, H. - Sui, M.: Single metal atom oxide anchored Fe₃O₄-ED-rGO for highly efficient photodecomposition of antibiotic residues under visible light illumination. In: Applied Catalysis B: Environmental, Vol. 300, 2022, Art. No. 120740 -- SCOPUS

ADC07 Michalková, Hana (aut) (25%) - Skubalová, Zuzana (aut) (25%) - Sopha, Hanna (aut) (5%) - Strmiska, Vladislav (aut) (5%) - Tesarova, Barbora (aut) (5%) - Dostálová, Simona (aut) (5%) - Švec, Pavel (aut) (5%) - Hromádka, Luděk (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Macak, Jan M. (aut) (5%) - Adam, Vojtěch (aut) (5%) - Heger, Zbyek (aut) (5%): Complex cytotoxicity mechanism of bundles formed from self-organised 1-D anodic TiO₂ nanotubes layers

Lit.: 74 zázn.

In: Journal of Hazardous Materials. - č. 388 (2020), s. [1-12], art. no. 22054. - ISSN (print) 0304-3894

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Indikátor časopisu:

IF (JCR) 2020=10,588

Kvartil Q:

wos-jcr -- Q1 [Engineering, environmental] -- 2020

wos-jcr -- Q1 [Environmental sciences] -- 2020

Ohlasy (8):

[n1] 2021 zz ~ He, L. - Zhang, W. - Liu, S. - Zhao, Y.: Three-dimensional porous N-doped graphitic carbon framework with embedded CoO for photocatalytic CO₂ reduction. In: Applied Catalysis B: Environmental, Vol. 298, 2021, Art. No. 120546 --SCOPUS

[n1] 2021 zz ~ Kunrath, M.F. - Muradas, T.C. - Penha, N. - Campos, M.M.: Innovative surfaces and alloys for dental implants: What about biointerface-safety concerns?. In: Dental Materials, Vol. 37, No. 10, 2021, s. 1447-1462 -- SCOPUS

[n1] 2021 zz ~ Malakar, A. - Kanel, S.R. - Ray, C. - Snow, D.D. - Nadagouda, M.N.: Nanomaterials in the environment, human exposure pathway, and health effects: A review. In: Science of the Total Environment, Vol. 759, 2021, Art. No. 143470 --SCOPUS

[n1] 2021 zz ~ Cao, Y. - Li, S. - Chen, J.: Modeling better in vitro models for the prediction of nanoparticle toxicity: a review. In: Toxicology Mechanisms and Methods, Vol. 31, No. 1, 2021, s. 1-17 -- SCOPUS

[n1] 2022 zz ~ Zandvakili, A. - Moradi, M. - Ashoo, P. - Pournajati, R. - Yosefi, R. - Karbalaei-Heidari, H.R. - Behaein, S.: Investigating cytotoxicity effect of Ag- deposited, doped and coated titanium dioxide nanotubes on breast cancer cells. In: Materials Today Communications, Vol. 32, 2022, Art. No. 103915 -- SCOPUS

[n1] 2022 zz ~ Lin, Y. - Qian, Q. - Chen, Z. - Dinh Tuan, P. - Feng, D.: Fabrication of high specific surface area TiO₂ nanopowders by anodization of porous titanium. In: Electrochemistry Communications, Vol. 136, 2022, Art. No. 107234 --SCOPUS

[n1] 2022 zz ~ Shaik, A.H. - Shaik, S. - Goyal, S. - Chandan, M.R. - Veza, I. - Buradi, A. - Alarifi, I.M.: A Review on Environmental and Economic Impact of 2D Nanomaterials-Based Heat Transfer Fluids. In: Journal of Nanomaterials, Vol. 2022, 2022, Art. No. 3443360 -- SCOPUS

[n1] 2022 zz ~ Siti Nur Hazwani, M.R. - Lim, L.X. - Lockman, Z. - Zuhailawati, H.: Fabrication of titanium-based alloys with bioactive surface oxide layer as biomedical implants: Opportunity and challenges. In: Transactions of Nonferrous Metals Society of China, Vol. 32, No. 1, 2022, s. 1-44 -- SCOPUS

ADC08 Motola, Martin (aut) [UKOPRCAG] (35%) - Čaplovičová, Mária (aut) (15%) - Krbal, Miloš (aut) (10%) - Sopha, Hanna (aut) (5%) - Thirunavukkarasu, Guru Karthikeyan (aut) [UKOPRCAG] (5%) - Gregor, Maroš (aut) [UKOMFKEF] (10%) - Plesch, Gustáv (aut) [UKOPRCAG]

(10%) - Macak, Jan M. (aut) (10%): Ti³⁺ doped anodic single-wall TiO₂ nanotubes as highly efficient photocatalyst

Lit.: 68 zázň.

In: *Electrochimica Acta.* - ř. 331 (2020), s. [1-8], Art. No. 135374. - ISSN (print) 0013-4686

Registrované v:

SCO SCOPUS

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WOS CC Web of Science Core Collection

SCIE Science Citation Index Expanded

Indikátor řasopisu:

IF (JCR) 2020=6,901

Kvartil Q:

wos-jcr -- Q2 [Electrochemistry] -- 2020

Ohlasy (22):

[o1] 2020 ~ Ren, Y. - Shi, X. - Xia, P. - Li, S. - Lv, M. - Wang, Y. - Mao, Z.: In situ Raman investigation of TiO₂ nanotube array-based ultraviolet photodetectors: Effects of nanotube length. In: *Molecules*, Vol. 25, No. 8, 2020, Art. No.25081854 -- SCOPUS

[o1] 2020 ~ Tsuchiya, H. - Schmuki, P.: Less known facts and findings about TiO₂ nanotubes. In: *Nanoscale*, Vol. 12, No. 15, 2020, s. 8119-8132 -- SCOPUS

[o1] 2020 ~ Sugiawati, V.A. - Vacandio, F. - Djenizian, T.: All-solid-state lithium ion batteries using self-organized TiO₂ nanotubes grown from Ti-6Al-4V alloy. In: *Molecules*, Vol. 25, No. 9, 2020, Art. No. molecules250921 -- SCOPUS

[o1] 2020 ~ Guo, R. - Zeng, D. - Xie, Y. - Ling, Y. - Zhou, D. - Jiang, L. - Jiao, W. - Zhao, J. - Li, S.: Carbon nitride quantum dots (CNQDs)/TiO₂ nanoparticle heterojunction photocatalysts for enhanced ultraviolet-visible-light-driven bisphenol a degradation and H₂ production. In: *International Journal of Hydrogen Energy*, Vol. 45, No. 43, 2020, s. 22534-22544 -- SCOPUS

[o1] 2020 ~ Pang, Y. - Chen, H. - Yang, J. - Wang, B. - Yang, Z. - Lv, J. - Pan, Z. - Xu, G. - Shen, Z. - Wu, Y.: Rational regulation of surface free radicals on TiO₂ nanotube arrays via Ag₂O-AgBiO₃ towards enhanced selective photoelectrochemical detection. In: *Nanomaterials*, Vol. 10, No. 10, 2020, Art. No. 2002 -- SCOPUS

[o1] 2020 ~ Li, S. - Liao, J. - Dong, Y. - Fu, Y. - Zhu, Y.: Enhanced photocatalytic activity of ternary g-C₃N₄/NaTaO₃/biomass carbon composite

photocatalysts under visible-light radiation. In: Journal of Materials Science: Materials in Electronics, Vol. 31, No. 22, 2020, s. 19613-19622 -- SCOPUS

[n1] 2021 zz ~ Gupta, J. - Hassan, P.A. - Barick, K.C.: Defects in nanomaterials for visible light photocatalysis. In: Nanostructured Materials for Visible Light Photocatalysis. Amsterdam : Elsevier, 2021, S. 319-350 -- SCOPUS

[n1] 2021 zz ~ Pasikhani, J.V. - Aliabadi, B.G. - Gilani, N. - Pirbazari, A.E.: Construction of NiO and Ti³⁺ self-doped TNTs thin film as a high quantum yield p-n type heterojunction via a novel photoelectrodeposition-assisted anodization method. In: Journal of Photochemistry and Photobiology A: Chemistry, Vol. 418, 2021, Art. No. 113433 -- SCOPUS

[n1] 2021 zz ~ Zhao, Y. - Lu, R. - Wang, X. - Huai, X. - Wang, C. - Wang, Y. - Chen, S.: Visible light-induced antibacterial and osteogenic cell proliferation properties of hydrogenated TiO₂ nanotubes/Ti foil composite. In: Nanotechnology, Vol. 32, No. 19, 2021, Art. No. 195101 -- SCOPUS

[n1] 2021 zz ~ Reghunath, S. - Pinheiro, D. - KR, S.D.: A review of hierarchical nanostructures of TiO₂: Advances and applications. In: Applied Surface Science Advances, Vol. 3, 2021, Art. No. 100063 -- SCOPUS

[n1] 2021 zz ~ Raizada, P. - Soni, V. - Kumar, A. - Singh, P. - Parwaz Khan, A.A. - Asiri, A.M. - Thakur, V.K. - Nguyen, V.-H.: Surface defect engineering of metal oxides photocatalyst for energy application and water treatment. In: Journal of Materiomics, Vol. 7, No. 2, 2021, s. 388-418 -- SCOPUS

[n1] 2021 zz ~ Leon, D. - Maimone, A. - Carvajal, D. - Madriz, L. - Scharifker, B.R. - Cabrerizo, F.M. - Vargas, R.: Unraveling Kinetic Effects during Photoelectrochemical Mineralization of Phenols. Rutile: Anatase TiO₂ Nanotube Photoanodes under Thin-Layer Conditions. In: Journal of Physical Chemistry C, Vol. 125, No. 1, 2021, s. 610-617 -- SCOPUS

[n1] 2022 zz ~ Rahman, H. - Norbert, A. - Nair, P.S. - Joseph, J.A. - Shaji, S. - Deshpande, U. - Naduvath, J. - S, S.A. - Philip, R.R.: Influence of sodium doping on the material properties and photocatalytic activity of anatase titanium dioxide nanotubes prepared by anodization. In: Optical Materials, Vol. 134, 2022, Art. No. 113172 -- SCOPUS

[n1] 2022 zz ~ Narindri Rara Winayu, B. - Chou, C.-C. - Chu, H.: Enhancement of toluene photocatalytic degradation using GO/S/TiO₂. In: Journal of the Taiwan Institute of Chemical Engineers, Vol. 139, 2022, Art. No. 104529 -- SCOPUS

[n1] 2022 zz ~ Lincho, J. - Zaleska-Medynska, A. - Martins, R.C. - Gomes, J.: Nanostructured photocatalysts for the abatement of contaminants by photocatalysis and photocatalytic ozonation: An overview. In: Science of the Total Environment, Vol. 837, 2022, Art. No. 155776 -- SCOPUS

[n1] 2022 zz ~ Zakir, O. - Mountassir El Mouchtari, E. - Elyaagoubi, M. - mersly Lekbira, E. - Idouhli, R. - Aityoub, A. - Eddine Khadiri, M. - Rafqah, S. - Abouelfida, A. - Outzourhit, A.: Anodic TiO₂ nanotube: influence of annealing temperature on the photocatalytic degradation of carbamazepine. In: Journal of the Australian Ceramic Society, Vol. 58, No. 4, 2022, s. 1389-1397 - SCOPUS

[n1] 2022 zz ~ Hu, Z. - Gong, Q. - Wang, J. - Zheng, X. - Wang, A. - Gao, S.: Construction of Spindle-Shaped Ti³⁺ Self-Doped TiO₂ Photocatalysts Using Triethanolamine-Aqueous as the Medium and Its Photoelectrochemical Properties. In: Nanomaterials, Vol. 12, No. 13, 2022, Art. No. 2298 -- SCOPUS

[n1] 2022 zz ~ Leani, J.J. - Robledo, J.I. - Oliva, F.Y. - Sanchez, H.J.: Depth profiling characterization of the titanium chemical state on electrode surfaces for technological applications. In: Journal of Analytical Atomic Spectrometry, Vol.37, No. 3, 2022, s. 613-619 -- SCOPUS

[n1] 2022 zz ~ Yuferov, Y.V. - Popov, I.D. - Zykov, F.M. - Suntsov, A.Y. - Baklanova, I.V. - Chukin, A.V. - Kukharenko, A.I. - Cholakh, S.O. - Zhidkov, I.S.: Study of the influence of anodizing parameters on the photocatalytic activity of preferred oriented TiO₂ nanotubes self-doped by carbon. In: Applied Surface Science, Vol. 573, 2022, Art. No. 151366 -- SCOPUS

[n1] 2022 zz ~ Savchuk, T. - Gavrilin, I. - Konstantinova, E. - Dronov, A. - Volkov, R. - Borgardt, N. - Maniecki, T. - Gavrilov, S. - Zaitsev, V.: Anodic TiO₂ nanotube arrays for photocatalytic CO₂ conversion: Comparative photocatalysis and EPR study. In: Nanotechnology, Vol. 33, No. 5, 2022, Art. No. 055706 -- SCOPUS

[n1] 2022 zz ~ Zhao, Y. - Hu, X. - Hu, R. - Wang, X. - Gu, Z. - Zhang, X. - Zhao, Y.: Fluorination of Defective Titanium Dioxide with an Efficient Photocatalytic Activity. In: Genetics Research, Vol. 2022, 2022, Art. No. 3406405 -- SCOPUS

[n1] 2022 zz ~ Kumar, A. - Choudhary, P. - Kumar, A. - Camargo, P.H.C. - Krishnan, V.: Recent Advances in Plasmonic Photocatalysis Based on TiO₂ and Noble Metal Nanoparticles for Energy Conversion, Environmental Remediation, and Organic Synthesis. In: Small, Vol. 18, No. 1, 2022, Art. No. 2101638 -- SCOPUS

ADC09 Motola, Martin (aut) [UKOPRCAG] (70%) - Hromádko, Luděk (aut) (5%) - Příkryl, Jan (aut) (5%) - Sopha, Hanna (aut) (5%) - Krbal, Miloš (aut) (5%) - Macak, Jan M. (aut) (10%): Intrinsic properties of high -aspect ratio single- and double -wallanodic TiO₂ nanotube layers annealed at different temperatures

Lit.: 66 zázň.

In: *Electrochimica Acta*. - ř. 352 (2020), s. [1-12], art. no. 136479. - ISSN (print) 0013-4686

Registrované v:

SCO SCOPUS

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Indikátor řasopisu:

IF (JCR) 2020=6,901

Kvartil Q:

wos-jcr -- Q2 [Electrochemistry] -- 2020

Ohlasy (9):

[o1] 2020 ~ Chavez-Mejia, A.C. - Zaragoza-Sanchez, P.I. - Magana-Lopez, R. - Barrera-Diaz, C.E. - Jimenez-Cisneros, B.E.: Effect of the electrolyte chemical nature on the formation and characteristics of TiO₂ nanotubes synthesized by anodic oxidation using a Ti cathode. In: *Journal of Materials Science: Materials in Electronics*, Vol. 31, No. 18, 2020, s. 15907-15918 -- SCOPUS

[n1] 2022 zz ~ Mir, A. - Shah, M.A.: Fabrication of highly stable Titania photoanode with enhanced photocurrent density. In: *Applied Physics A: Materials Science and Processing*, Vol. 128, No. 12, 2022, Art. No. 1105 -- SCOPUS

[n1] 2022 zz ~ Lu, S. - Li, X. - Liao, Y. - Zhang, G.: Optimized titania nanotubes photoanode mediated photoelectrochemical oxidation of ammonia in highly chlorinated wastewater via Cl-based radicals. In: *Environmental Research*, Vol. 214, 2022, Art. No. 113972 -- SCOPUS

[n1] 2022 zz ~ Wtulich, M. - Szkoda, M. - Gajowiec, G. - Jurak, K. - Trykowski, G. - Lisowska-Oleksiak, A.: Hydrothermal modification of TiO₂ nanotubes in water and alkali metal electrolytes (LiNO₃, NaNO₃, KNO₃) - Direct evidence for photocatalytic activity enhancement. In: *Electrochimica Acta*, Vol. 426, 2022, Art. No. 140802 -- SCOPUS

[n1] 2022 zz ~ Puga, M.L. - Venturini, J. - ten Caten, C.S. - Bergmann, C.P.: Influencing parameters in the electrochemical anodization of TiO₂ nanotubes: Systematic review and meta-analysis. In: *Ceramics International*, Vol. 48, No. 14, 2022, s. 19513-19526 -- SCOPUS

[n1] 2022 zz ~ Paul, S. - Rahman, M.A. - Sharif, S.B. - Kim, J.-H. - Siddiqui, S.-E.-T. - Hossain, M.A.M.: TiO₂ as an Anode of High-Performance Lithium-Ion Batteries: A Comprehensive Review towards Practical Application. In: *Nanomaterials*, Vol. 12, No. 12, 2022, Art. No. 2034 -- SCOPUS

[n1] 2022 zz ~ Rios, J. - Santini, V.N. - Pereira, K.D. - Luchessi, A.D. - Lopes, E.S.N. - Caram, R. - Cremasco, A.: Self-organized TiO₂ nanotubes on Ti-Nb-Fe alloys for biomedical applications: Synthesis and characterization. In: Electrochemistry Communications, Vol. 138, 2022, Art. No. 107280 -- SCOPUS

[n1] 2022 zz ~ Hou, X. - Lund, P.D. - Li, Y.: Controlling anodization time to monitor film thickness, phase composition and crystal orientation during anodic growth of TiO₂ nanotubes. In: Electrochemistry Communications, Vol. 134, 2022, Art.No. 107168 -- SCOPUS

[n1] 2022 zz ~ Jedrzejewska, A.: Corrosion Properties of Double-Walled TiO₂ Nanotubes Measured in 0.9 % NaCl -? Preliminary Results. In: Lecture Notes in Networks and Systems, Vol. 293, 2022, s. 126-135 -- SCOPUS

ADC10 Sopha, Hanna (aut) (40%) - Hromádko, Luděk (aut) (10%) - Motola, Martin (aut) [UKOPRCAG] (30%) - Macak, Jan M. (aut) (20%): Fabrication of TiO₂ nanotubes on Ti spheres using bipolar electrochemistry

Lit.: 25 zázn.

In: Electrochemistry Communications. - Roč. 111 (2020), s. [1-4], art. no. 106669. - ISSN (print) 1388-2481

Registrované v:

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SCIE Science Citation Index Expanded

Indikátor časopisu:

IF (JCR) 2020=4.724

Kvartil Q:

wos-jcr -- Q2 [Electrochemistry] -- 2020

Ohlasy (13):

[o1] 2020 ~ Xu, Q. - Wang, Y. - Chi, M. - Hu, W. - Zhang, N. - He, W.: Porous polymer-titanium dioxide/copper composite with improved photocatalytic activity toward degradation of organic pollutants in wastewater: Fabrication and characterization as well as photocatalytic activity evaluation. In: Catalysts, Vol. 10, No. 3, 2020, Art. No. 310 -- SCOPUS

[o1] 2020 ~ Asoh, H. - Takeuchi, R. - Hashimoto, H.: Unusual surfaces with structural gradients: Investigation of potential gradients on bipolar electrodes during bipolar anodization of aluminum. In: Electrochemistry Communications, Vol. 120, 2020, Art. No. 106849 -- SCOPUS

- [n1] 2021 zz ~ Takeuchi, R. - Asoh, H.: Effects of size and position of an unconnected aluminum electrode on bipolar anodization in an AC electric field. In: Scientific Reports, Vol. 11, No. 1, 2021, Art. No. 22496 -- SCOPUS
- [n1] 2021 zz ~ Sun, J. - Liu, L. - Yang, F.: Progress on catalytic electrodes and fuel cell systems for industrial wastewater treatment. In: Kexue Tongbao/Chinese Science Bulletin, Vol. 66, No. 19, 2021, s. 2378-2392 -- SCOPUS
- [n1] 2021 zz ~ Shirazi-Fard, S. - Mohammadpour, F. - Zolghadr, A.R. - Klein, A.: Encapsulation and Release of Doxorubicin from TiO₂ Nanotubes: Experiment, Density Functional Theory Calculations, and Molecular Dynamics Simulation. In: Journal of Physical Chemistry B, Vol. 125, No. 21, 2021, s. 5549-5558 -- SCOPUS
- [n1] 2021 zz ~ Asoh, H. - Ishizuka, F. - Kuroki, S. - Takeuchi, R.: DC bipolar anodization of aluminum: Wider anode area than expected on the bipolar electrodes. In: Electrochemistry Communications, Vol. 125, 2021, Art. No. 107015 -- SCOPUS
- [n1] 2022 zz ~ Zhang, T. - Wang, Y.-J. - Yu, L.-M. - Shi, L.-M. - Chai, S.-N. - He, C.: Graphdiyne: Synthesis, modification and application of a two-dimensional carbonaceous material. In: New Carbon Materials, Vol. 37, No. 6, 2022, s.1089-1113 -- SCOPUS
- [n1] 2022 zz ~ Yousif, Q.A. - Haran, N.H.: Ultrasound effects on titanium dioxide compact layer and its application of dye-sensitized solar cell. In: Optik, Vol. 270, 2022, Art. No. 169964 -- SCOPUS
- [n1] 2022 zz ~ Kokubo, Y. - Asoh, H.: Two-step bipolar anodization: Design of titanium with two different faces. In: Electrochemistry Communications, Vol. 142, 2022, Art. No. 107376 -- SCOPUS
- [n1] 2022 zz ~ Gupta, B. - Suchomski, P. - Ashwin Melvin, A. - Linfield, S. - Opallo, M. - Nogala, W.: Optical readout of moisture in sand employing bipolar electrochemistry. In: Electrochemistry Communications, Vol. 140, 2022, Art. No. 107329-- SCOPUS
- [n1] 2022 zz ~ Zhang, Q. - Zhou, H. - Yang, M. - Tang, X. - Hong, Q. - Yang, Z. - Liu, S. - Chen, J. - Zhou, G. - Pan, C.: Fabrication and formation mechanism of gradient TiO₂ nanotubes via bipolar anodization. In: Journal of Electroanalytical Chemistry, Vol. 915, 2022, Art. No. 116337 -- SCOPUS
- [n1] 2022 zz ~ Jiang, Q. - Han, Z. - Yuan, Y. - Cai, C. - Li, J. - Cheng, Z.: Controlled preparation and photocatalytic performance of TiO₂/ZnO phase-mixed nanotubes-based nano-spheres. In: Materials Chemistry and Physics, Vol. 279, 2022, Art.No. 125737 -- SCOPUS

[n1] 2022 zz ~ Zhang, S. - Hu, D. - Xu, L. - Xia, X.: Formation of sunken hexagonal TiO₂ nanotube-clusters in sol electrolyte. In: Chemical Physics Letters, Vol. 786, 2022, Art. No. 139168 -- SCOPUS

ADC11 Sopha, Hanna (aut) (30%) - Norikawa, Yutaro (aut) (20%) - Motola, Martin (aut) [UKOPRCAG] (20%) - Hromádka, Luděk (aut) (5%) - Rodriguez-Pereira, Jhonatan (aut) (5%) - Černý, Jiří (aut) (5%) - Nohira, Toshiyuki (aut) (5%) - Yasuda, Kouji (aut) (5%) - Macak, Jan M. (aut) (5%): Anodization of electrodeposited titanium films towards TiO₂ nanotube layers
Lit.: 29 záz.

In: Electrochemistry Communications. - Roč. 118 (2020), s. [1-4], art. no. 6788. - ISSN (print) 1388-2481

Registrované v:

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Indikátor časopisu:

IF (JCR) 2020=4.724

Kvartil Q:

wos-jcr -- Q2 [Electrochemistry] -- 2020

Ohlasy (10):

[n1] 2021 zz ~ Yang, T. - Liu, Y. - Xia, G. - Zhu, X. - Zhao, Y.: Degradation of formaldehyde and methylene blue using wood-templated biomimetic TiO₂. In: Journal of Cleaner Production, Vol. 329, 2021, Art. No. 129726 -- SCOPUS

[n1] 2021 zz ~ Zhao, Y. - Yu, Y. - Li, K. - Zhang, G. - Yu, K. - Li, Y.: Nanotubular ZrTiO₄ Prepared on Sputter Deposited Zr-Ti Films by Anodization. In: ChemElectroChem, Vol. 8, No. 21, 2021, s. 4136-4140 -- SCOPUS

[n1] 2021 zz ~ Ni, Y. - Zhang, J. - Gong, T. - Sun, M. - Zhao, Z. - Li, X. - Yu, H. - Zhu, X.: Quantitative analysis of the volume expansion of nanotubes during constant voltage anodization. In: Surfaces and Interfaces, Vol. 26, 2021, Art. No.101419 -- SCOPUS

[n1] 2021 zz ~ Ayal, A.K. - Hashim, A.K. - Mohammed, A.M. - Farhan, A.M. - Holi, A.M. - Lim, Y.-C.: Electrochemical Deposition of Cu-Nanoparticle-Loaded CdSe/TiO₂ Nanotube Nanostructure as Photoelectrode. In: Journal of Electronic Materials, Vol. 50, No. 9, 2021, s. 5161-5167 -- SCOPUS

[n1] 2021 zz ~ Alves Junior, R. - Alves, H.P.A. - Cartaxo, J.M. - Rodrigues, A.M. - Neves, G.A. - Menezes, R.R.: Use of nanostructured and modified

TiO₂ as a gas sensing agent. In: *Ceramica*, Vol. 67, No. 383, 2021, s. 316-326 -
- SCOPUS

[n1] 2021 zz ~ Enculescu, M. - Costas, A. - Evangelidis, A. - Enculescu, I.:
Fabrication of zno and tio₂ nanotubes via flexible electro-spun nanofibers for
photocatalytic applications. In: *Nanomaterials*, Vol. 11, No. 5, 2021, Art. No.
1305 --SCOPUS

[n1] 2021 zz ~ Li, Y. - Tan, Y. - Liang, K. - Zhang, L. - Zhang, S.: Study of the
dimensions and photoelectric properties of TiO₂ NTs prepared by the double
Ti-Electrode oxidation method. In: *Journal of Alloys and Compounds*, Vol.
859, 2021, Art. No. 157878 -- SCOPUS

[n1] 2022 zz ~ Lincho, J. - Zaleska-Medynska, A. - Martins, R.C. - Gomes, J.:
Nanostructured photocatalysts for the abatement of contaminants by
photocatalysis and photocatalytic ozonation: An overview. In: *Science of the
Total Environment*, Vol. 837, 2022, Art. No. 155776 -- SCOPUS

[n1] 2022 zz ~ Wu, D. - Ding, D. - Yew, C.: Photoelectrochemical hydrogen
generation with nanostructured CdS/Ti-Ni-O composite photoanode. In:
International Journal of Hydrogen Energy, Vol. 47, No. 42, 2022, s. 18357-
18369 -- SCOPUS

[n1] 2022 zz ~ Yuferov, Y.V. - Popov, I.D. - Zykov, F.M. - Suntsov, A.Y. -
Baklanova, I.V. - Chukin, A.V. - Kukharenko, A.I. - Cholakh, S.O. - Zhidkov,
I.S.: Study of the influence of anodizing parameters on the photocatalytic
activity of preferred oriented TiO₂ nanotubes self-doped by carbon. In:
Applied Surface Science, Vol. 573, 2022, Art. No. 151366 -- SCOPUS

ADC12 Svadlakova, Tereza (aut) (50%) - Hubatka, František (aut) (10%) -
Turánek Knotigova, Pavlina (aut) (10%) - Kulich, Pavel (aut) (1%) - Mašek,
Josef (aut) (1%) - Kotouček, Jan (aut) (1%) - Macak, Jan M. (aut) (5%) -
Motola, Martin (aut) [UKOPRCAG] (5%) - Kalbač, Martin (aut) (1%) -
Kolackova, Martina (aut) (1%) - Vanková R, Radka (aut) (1%) - Vicherkova,
Petra (aut) (1%) - Malkova, Andrea (aut) (1%) - Šimečková, Pavlína (aut) (1%)
- Volkov, Yuri (aut) (1%) - Prina-Mello, Adriele (aut) (1%) - Kratochvílová,
Irena (aut) (1%) - Fiala, Zdeněk (aut) (1%) - Raška, Milan (aut) (1%) -
Krejsek, Jan (aut) (1%) - Turánek, Jaroslav (aut) (5%): Proinflammatory Effect
of Carbon-Based Nanomaterials: In Vitro Study on Stimulation of
Inflammasome NLRP3 via Destabilisation of Lysosomes [elektronický
dokument]

Lit.: 59 záz.

In: *Nanomaterials* [elektronický dokument]. - Roč. 10, č. 3 (2020), s. [1-18],
art. no. 418 [online]. - ISSN (online) 2079-4991

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Indikátor časopisu:

IF (JCR) 2020=5,076

Kvartil Q:

wos-jcr -- Q2 [Chemistry, multidisciplinary] -- 2020

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2020

wos-jcr -- Q2 [Nanoscience & nanotechnology] -- 2020

wos-jcr -- Q1 [Physics, applied] -- 2020

Ohlasy (15):

[o1] 2020 ~ La, D.D. - Truong, T.N. - Pham, T.Q. - Vo, H.T. - Tran, N.T. - Nguyen, T.A. - Nadda, A.K. - Nguyen, T.T. - Woong Chang, S. - Jin Chung, W. - Duc, Nguyen D.: Scalable fabrication of modified graphene nanoplatelets as an effective additive for engine lubricant oil. In: *Nanomaterials*, Vol. 10, No. 5, 2020, Art. No. 877 -- SCOPUS

[o1] 2020 ~ Rajabathar, J.R. - Periyasamy, G. - Alanazi, A.M. - Govindasamy, M. - Arunachalam, P.: Review on carbon nanotube varieties for healthcare application: Effect of preparation methods and mechanism insight. In: *Processes*, Vol. 8, No.12, 2020, Art. No. 1654 -- SCOPUS

[n1] 2021 zz ~ Melnikov, P.V. - Alexandrovskaya, A.Yu. - Naumova, A.O. - Popova, N.M. - Spitsyn, B.V. - Zaitsev, N.K. - Yashtulov, N.A.: Modified nanodiamonds as a means of polymer surface functionalization. From fouling suppression to biosensor design. In: *Nanomaterials*, Vol. 11, No. 11, 2021, Art. No. 2980 -- SCOPUS

[n1] 2021 zz ~ Bai, Y. - Mu, Q. - Bao, X. - Zuo, J. - Fang, X. - Hua, J. - Zhang, D. - Jiang, G. - Li, P. - Gao, S. - Zhao, D.: Targeting NLRP3 inflammasome in the treatment of diabetes and diabetic complications: Role of natural compounds from herbal medicine. In: *Aging and Disease*, Vol. 12, No. 7, 2021, s. 1587-1604 -- SCOPUS

[n1] 2021 zz ~ Nie, L. - Zhang, Y. - Li, L. - van Rijn, P. - Schirhagl, R.: Ph sensitive dextran coated fluorescent nanodiamonds as a biomarker for hela cells endocytic pathway and increased cellular uptake. In: *Nanomaterials*, Vol. 11, No. 7, 2021, Art. No. 1837 -- SCOPUS

[n1] 2021 zz ~ Paik, S. - Kim, J.K. - Silwal, P. - Sasakawa, C. - Jo, E.-K.: An update on the regulatory mechanisms of NLRP3 inflammasome activation. In: *Cellular and Molecular Immunology*, Vol. 18, No. 5, 2021, s. 1141-1160 -- SCOPUS

[n1] 2021 zz ~ Weiss, M. - Fan, J. - Claudel, M. - Lebeau, L. - Pons, F. - Ronzani, C.: Combined in vitro and in vivo approaches to propose a putative adverse outcome pathway for acute lung inflammation induced by nanoparticles: A study on carbon dots. In: *Nanomaterials*, Vol. 11, No. 1, 2021, Art. No. 180 -- SCOPUS

[n1] 2022 zz ~ Liao, X. - Liu, Y. - Zheng, J. - Zhao, X. - Cui, L. - Hu, S. - Xia, T. - Si, S.: Diverse Pathways of Engineered Nanoparticle-Induced NLRP3 Inflammasome Activation. In: *Nanomaterials*, Vol. 12, No. 21, 2022, Art. No. 3908 --SCOPUS

[n1] 2022 zz ~ Su, W.-Y. - FannN, M.-L. - Li, Y. - Hu, J.-N. - Cai, E.-B. - Zhu, H.-Y. - Song, M.-J. - Li, W.: 20(S)-ginsenoside Rh1 alleviates T2DM induced liver injury via the Akt/FOXO1 pathway. In: *Chinese Journal of Natural Medicines*, Vol. 20, No. 9, 2022, s. 669-678 -- SCOPUS

[n1] 2022 zz ~ Huang, Q. - Xin, X. - Sun, Q. - An, Z. - Gou, X. - Feng, Q.: Plant-derived bioactive compounds regulate the NLRP3 inflammasome to treat NAFLD. In: *Frontiers in Pharmacology*, Vol. 13, 2022, Art. No. 896899 -- SCOPUS

[n1] 2022 zz ~ Chen, C. - Xu, P.: Activation and Pharmacological Regulation of Inflammasomes. In: *Biomolecules*, Vol. 12, No. 7, 2022, Art. No. 1005 -- SCOPUS

[n1] 2022 zz ~ Abulikemu, A. - Zhao, X. - Qi, Y. - Liu, Y. - Wang, J. - Zhou, W. - Duan, H. - Li, Y. - Sun, Z. - Guo, C.: Lysosomal impairment-mediated autophagy dysfunction responsible for the vascular endothelial apoptosis caused by silica nanoparticle via ROS/PARP1/AIF signaling pathway. In: *Environmental Pollution*, Vol. 304, 2022, Art. No. 119202 -- SCOPUS

[n1] 2022 zz ~ Williams, B.M. - Cliff, C.L. - Lee, K. - Squires, P.E. - Hills, C.E.: The Role of the NLRP3 Inflammasome in Mediating Glomerular and Tubular Injury in Diabetic Nephropathy. In: *Frontiers in Physiology*, Vol. 13, 2022, Art. No.907504 -- SCOPUS

[n1] 2022 zz ~ Sestakova, B. - Schroterova, L. - Bezrouk, A. - Cizkova, D. - Elkalaf, M. - Havelek, R. - Rudolf, E. - Kralova, V.: The Effect of Chronic Exposure of Graphene Nanoplates on the Viability and Motility of A549 Cells. In: *Nanomaterials*, Vol. 12, No. 12, 2022, Art. No. 2074 -- SCOPUS

[n1] 2022 zz ~ Fletcher, P. - Hamilton, R.F. - Rhoderick, J.F. - Postma, B. - Buford, M. - Pestka, J.J. - Holian, A.: Dietary Docosahexaenoic Acid as a Potential Treatment for Semi-acute and Chronic Particle-Induced Pulmonary Inflammation in Balb/c Mice. In: *Inflammation*, Vol. 45, No. 2, 2022, s. 677-694 -- SCOPUS

ADC13 Zazpe, Raul (aut) (30%) - Krumpolec, Richard (aut) (10%) - Sopha, Hanna (aut) (5%) - Rodriguez-Pereira, Jhonatan (aut) (5%) - Charvot, Jaroslav (aut) (5%) - Hromádka, Luděk (aut) (5%) - Kolíbalová, Eva (aut) (5%) - Michalička, Jan (aut) (5%) - Pavlíňák, David (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Příkryl, Jan (aut) (5%) - Krbal, Miloš (aut) (5%) - Bureš, Filip (aut) (5%) - Macak, Jan M. (aut) (5%): Atomic Layer Deposition of MoSe₂ Nanosheets on TiO₂ Nanotube Arrays for Photocatalytic Dye Degradation and Electrocatalytic Hydrogen Evolution [elektronický dokument] Lit.: 70 záz.

In: ACS Applied Nano Materials [elektronický dokument]. - Roč. 3, č. 2 (2020), s. 12034-12045 [online]. - ISSN (print) 2574-0970

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Indikátor časopisu:

IF (JCR) 2020=5.097

Kvartil Q:

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2020

wos-jcr -- Q2 [Nanoscience & nanotechnology] -- 2020

Ohlasy (6):

[n1] 2021 zz ~ Gao, S. - Zavabeti, A. - Wang, B. - Ren, R. - Yang, C. - Liu, Z. - Wang, Y.: Nickel Phosphides Electrodeposited on TiO₂ Nanotube Arrays as Electrocatalysts for Hydrogen Evolution. In: ACS Applied Nano Materials, Vol. 4, No. 5, 2021, s. 4542-4551 -- SCOPUS

[n1] 2022 zz ~ Li, Y. - Wang, M. - Sun, J.: Molecular Engineering Strategies toward Molybdenum Diselenide Design for Energy Storage and Conversion. In: Advanced Energy Materials, Vol. 12, No. 45, 2022, Art. No. 2202600 -- SCOPUS

[n1] 2022 zz ~ Khan, H. - Charles, H. - Lee, C.S.: Synergistic effect stemming from vertically anchored seamless 2D MoSe₂ nanosheets on 1D NiTiO₃ nanofibers toward CO₂ photoreduction. In: Journal of CO₂ Utilization, Vol. 61, 2022, Art. No. 102058-- SCOPUS

[n1] 2022 zz ~ Wang, Y. - Xiao, X. - Lu, M. - Xiao, Y.: 3D network-like rGO-MoSe₂ modified g-C₃N₄ nanosheets with Z-scheme heterojunction: Morphology control, heterojunction construct, and boosted photocatalytic performances. In: Journal of Alloys and Compounds, Vol. 897, 2022, Art. No. 163197 -- SCOPUS

[n1] 2022 zz ~ Humayun, M. - Wang, C. - Luo, W.: Recent Progress in the Synthesis and Applications of Composite Photocatalysts: A Critical Review.

In: Small Methods, Vol. 6, No. 2, 2022, Art. No. 2101395 -- SCOPUS

[n1] 2022 zz ~ Kabir, A.M.R. - Munmun, T. - Hayashi, T. - Yasuda, S. - Kimura, A.P. - Kinoshita, M. - Murata, T. - Sada, K. - Kakugo, A.: Controlling the Rigidity of Kinesin-Propelled Microtubules in an In Vitro Gliding Assay Using the Deep-Sea Osmolyte Trimethylamine N-Oxide. In: ACS Omega, Vol. 7, No. 4, 2022, s. 3796-3803 -- SCOPUS

ADC14 Hromádko, Luděk (aut) (45%) - Motola, Martin (aut) [UKOPRCAG] (50%) - Čičmancová, Veronika (aut) (1%) - Bulánek, Roman (aut) (1%) - Macak, Jan M. (aut) (3%): Facile synthesis of WO₃ fibers via centrifugal spinning as an efficient UV-and VIS-light-driven photocatalyst

Lit.: 32 záz.

In: Ceramics International. - Roč. 47, č. 24 (2021), s. 35361-35365. - ISSN (print) 0272-8842

Registrované v:

SCO SCOPUS

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WOS CC Web of Science Core Collection

Indikátor časopisu:

IF (JCR) 2021=5.532

Kvartil Q:

wos-jcr -- Q1 [Materials science, ceramics] -- 2021

Ohlasy (1):

[n1] 2022 zz ~ Radic, N. - Grbic, B. - Stojadinovic, S. - Ilic, M. - Dosen, O. - Stefanov, P.: TiO₂-CeO₂ composite coatings for photocatalytic degradation of chloropesticide and organic dye. In: Journal of Materials Science: Materials in Electronics, Vol. 33, No. 8, 2022, s. 5073-5086 -- SCOPUS

ADC15 Motola, Martin (aut) [UKOPRCAG] (65%) - Zazpe, Raul (aut) (5%) - Hromádko, Luděk (aut) (5%) - Přikryl, Jan (aut) (5%) - Čičmancová, Veronika (aut) (5%) - Rodriguez-Pereira, Jhonatan (aut) (5%) - Sopha, Hanna (aut) (5%) - Macak, Jan M. (aut) (5%): Anodic TiO₂ nanotube walls reconstructed: Inner wall replaced by ALD TiO₂ coating

Lit.: 80 záz.

In: Applied Surface Science. - č. 549 (2021), s. [1-8], art. no. 149306. - ISSN (print) 0169-4332

Registrované v:

SCO SCOPUS

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WOS CC Web of Science Core Collection

Indikátor časopisu:

IF (JCR) 2021=7.392

Kvartil Q:

wos-jcr -- Q1 [Physics, applied] -- 2021

wos-jcr -- Q2 [Chemistry, physical] -- 2021

wos-jcr -- Q1 [Materials science, coatings & films] -- 2021

wos-jcr -- Q1 [Physics, condensed matter] -- 2021

Ohlasy (8):

[n1] 2021 zz ~ Li, P. - Wang, J. - Liu, L. - Ma, J. - Ni, Y. - Wang, H. - Song, Y.: The effect of atmospheric pressure on the growth rate of TiO₂ nanotubes: Evidence against the field-assisted dissolution theory. In: *Electrochemistry Communications*, Vol. 132, 2021, Art. No. 107146 -- SCOPUS

[n1] 2021 zz ~ Hou, J. - Huang, B. - Kong, L. - Xie, Y. - Liu, Y. - Chen, M. - Wang, Q.: One-pot hydrothermal synthesis of CdS-CuS decorated TiO₂ NTs for improved photocatalytic dye degradation and hydrogen production. In: *Ceramics International*, Vol. 47, No. 21, 2021, s. 30860-30868 -- SCOPUS

[n1] 2021 zz ~ Blasco-Tamarit, E. - Solsona, B. - Sanchez-Tovar, R. - Garcia-Garcia, D. - Fernandez-Domene, R.M. - Garcia-Anton, J.: Influence of annealing atmosphere on photoelectrochemical response of TiO₂ nanotubes anodized under controlled hydrodynamic conditions. In: *Journal of Electroanalytical Chemistry*, Vol. 897, 2021, Art. No. 115579 -- SCOPUS

[n1] 2021 zz ~ Yu, Y. - Pan, D. - Qiu, S. - Ren, L. - Huang, S. - Liu, R. - Wang, L. - Wang, H.: Polyphenylene sulfide paper-based sensor modified by Eu-MOF for efficient detection of Fe³⁺. In: *Reactive and Functional Polymers*, Vol. 165, 2021, Art. No. 104954 -- SCOPUS

[n1] 2021 zz ~ Ullah, H. - Ur Rahman, A. - Leonetti Aragao, E. - Frois Alves Barbosa, F. - Gabriel Ramisch Pergher, K. - Giulian, R. - Coelho Junior, H. - Luis Sommer, R. - Khan, S.: Homogeneous V incorporation via single-step anodization: Structural doping or heterostructure formation?. In: *Applied Surface Science*, Vol. 556, 2021, Art. No. 149694 -- SCOPUS

[n1] 2021 zz ~ Xie, Y.-L. - Ben, C.-J. - Guo, L.-F.: Enhanced Photocatalytic Performance of Anodized TiO₂ Nanotube Arrays Decorated with BiVO₄ Nanoparticles and Its Application for Rhodamine B Degradation. In: *International Journal of Electrochemical Science*, Vol. 16, 2021, Art. No. 21128 -- SCOPUS

[n1] 2022 zz ~ Puga, M.L. - Venturini, J. - ten Caten, C.S. - Bergmann, C.P.: Influencing parameters in the electrochemical anodization of TiO₂ nanotubes:

Systematic review and meta-analysis. In: *Ceramics International*, Vol. 48, No. 14, 2022, s. 19513-19526 -- SCOPUS

[n1] 2022 zz ~ Zhang, S. - Hu, D. - Xu, L. - Xia, X.: Formation of sunken hexagonal TiO₂ nanotube-clusters in sol electrolyte. In: *Chemical Physics Letters*, Vol. 786, 2022, Art. No. 139168 -- SCOPUS

ADC16 Říhová, Martina (aut) (25%) - Yurkevich, Oksana (aut) (25%) - Motola, Martin (aut) [UKOPRCAG] (25%) - Hromádko, Luděk (aut) (5%) - Spotz, Zdeněk (aut) (5%) - Zazpe, Raul (aut) (5%) - Knez, Mato (aut) (5%) - Macak, Jan M. (aut) (5%): ALD coating of centrifugally spun polymeric fibers and postannealing: case study for nanotubular TiO₂ photocatalyst [elektronický dokument]

Lit.: 66 záz.

In: *Nanoscale Advances* [elektronický dokument]. - Roč. 3, č. 15 (2021), s. 4589-4596 [online]. - ISSN (online) 2516-0230

Registrované v:

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Indikátor časopisu:

IF (JCR) 2021=5.598

Kvartil Q:

wos-jcr -- Q2 [Chemistry, multidisciplinary] -- 2021

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2021

wos-jcr -- Q3 [Nanoscience & nanotechnology] -- 2021

Ohlasy (1):

[n1] 2021 zz ~ Yang, T. - Liu, Y. - Xia, G. - Zhu, X. - Zhao, Y.: Degradation of formaldehyde and methylene blue using wood-templated biomimetic TiO₂.

In: *Journal of Cleaner Production*, Vol. 329, 2021, Art. No. 129726 -- SCOPUS

ADC17 Thirunavukkarasu, Guru Karthikeyan (aut) [UKOPRCAG] (33%) - Monfort, Olivier (aut) [UKOPRCAG] (10%) - Motola, Martin (aut) [UKOPRCAG] (10%) - Motlochová, Monika (aut) (10%) - Gregor, Maroš (aut) [UKOMFKEF] (5%) - Roch, Tomáš (aut) [UKOMFKEF] (5%) - Čaplovičová, Mária (aut) (5%) - Lavrikova, Aleksandra (aut) [UKOMFKAFZM] (3%) - Hensel, Karol (aut) [UKOMFKAFZM] (3%) - Brezová, Vlasta (aut) (3%) - Jerigová, Monika (aut) [UKOPRCFZ] (3%) - Šubrt, Jan (aut) (5%) - Plesch, Gustáv (aut) [UKOPRCAG] (5%): Ce ion surface-modified TiO₂ aerogel powders: a comprehensive study of their

excellent photocatalytic efficiency in organic pollutant removal [elektronický dokument]

Lit.: 76 záz. n.

In: New Journal of Chemistry [elektronický dokument]. - Roč. 45, č. 9 (2021), s. 4174-4184 [print]. - ISSN (print) 1144-0546

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SCIE Science Citation Index Expanded

SCO SCOPUS

Indikátor časopisu:

IF (JCR) 2021=3.925

Kvartil Q:

wos-jcr -- Q2 [Chemistry, multidisciplinary] -- 2021

Ohlasy (1):

[n1] 2022 zz ~ Sasi, S. - Chandran, A. - Sugunan, S.K. - Krishna, A.C. - Nair, P.R. - Peter, A. - Shaji, A.N. - Subramanian, K.R.V. - Pai, N. - Mathew, S.: Flexible Nano-TiO₂ Sheets Exhibiting Excellent Photocatalytic and Photovoltaic Properties by Controlled Silane Functionalization-Exploring the New Prospects of Wastewater Treatment and Flexible DSSCs. In: ACS Omega, Vol. 7, No. 29, 2022, s. 25094-25109 -- SCOPUS

ADC18 Zazpe, Raul (aut) (30%) - Sopha, Hanna (aut) (20%) - Charvot, Jaroslav (aut) (10%) - Krumpolec, Richard (aut) (5%) - Rodriguez-Pereira, Jhonatan (aut) (5%) - Michalička, Jan (aut) (5%) - Mistrík, Jan (aut) (5%) - Bača, Dominik (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Bureš, Filip (aut) (5%) - Macak, Jan M. (aut) (5%): 2D MoTe₂ nanosheets by atomic layer deposition: Excellent photoelectrocatalytic properties

Lit.: 79 záz. n.

In: Applied Materials Today. - č. 23 (2021), s. [1-11], art. no. 101017. - ISSN (print) 2352-9407

Registrované v:

SCO SCOPUS

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Indikátor časopisu:

IF (JCR) 2021=8.663

Kvartil Q:

wos-jcr -- Q1 [Materials science, multidisciplinary] -- 2021

Ohlasy (9):

[n1] 2021 zz ~ Wu, B. - Luxa, J. - Kovalska, E. - Ivo, M. - Zhou, H. - Malek, R. - Marvan, P. - Wei, S. - Liao, L. - Sofer, Z.: Sub-millimetre scale Van der Waals single-crystal MoTe₂ for potassium storage: Electrochemical properties, and its failure and structure evolution mechanisms. In: Energy Storage Materials, Vol. 43, 2021, s. 284-292 -- SCOPUS

[n1] 2021 zz ~ Wang, J. - Zhang, S. - Li, X. - Li, X. - Cai, P. - Mu, Y. - Sun, M. - Yin, G. - Dong, S. - Chen, A.: Synthesis of chip-shaped Te film for enhanced photocatalytic activity under visible light irradiation. In: Journal of Solid State Chemistry, Vol. 304, 2021, Art. No. 122624 -- SCOPUS

[n1] 2022 zz ~ Mohamed Abouelela, M. - Kawamura, G. - Matsuda, A.: Metal chalcogenide-based photoelectrodes for photoelectrochemical water splitting. In: Journal of Energy Chemistry, Vol. 73, 2022, s. 189-213 -- SCOPUS

[n1] 2022 zz ~ Lei, Y. - Xiao, X. - Ma, T. - Li, W. - Zhang, H. - Ma, C.: Facile hydrothermal synthesis of layered 1T' MoTe₂ nanotubes as robust hydrogen evolution electrocatalysts. In: Frontiers in Chemistry, Vol. 10, 2022, Art. No. 1005782-- SCOPUS

[n1] 2022 zz ~ Wang, J. - Chen, B. - Zhang, W. - Wu, Y. - Chen, L. - Wen, J. - Yan, H.: Property Comparison of Transition-Metal Dichalcogenides (MoS₂, MoSe₂ and MoTe₂) and Their Applicability as Electrochemical Biosensors for Glucose Detection. In: Chemistry Select, Vol. 7, No. 33, 2022, Art. No. e202201722 -- SCOPUS

[n1] 2022 zz ~ Shen, C. - Yin, Z. - Collins, F. - Pinna, N.: Atomic Layer Deposition of Metal Oxides and Chalcogenides for High Performance Transistors. In: Advanced Science, Vol. 9, No. 23, 2022, Art. No. 2104599 -- SCOPUS

[n1] 2022 zz ~ Fu, W. - Zhan, Q. - Yu, Y. - Meng, X. - Tang, M. - Wang, Y. - Sun, Y. - Dai, Y.: Surfactant-Free and Microporous AlOOH/Al₂O₃ Nanosheets on TiO₂-Based Nanofibers: A Sustained-Release Dominated Topotactic Transformation. In: ChemNanoMat, Vol. 8, No. 8, 2022, Art. No. e202100459 -- SCOPUS

[n1] 2022 zz ~ Xiao, Z. - Gan, X. - Zhu, T. - Lei, D. - Zhao, H. - Wang, P.: Activating the Basal Planes in 2H-MoTe₂ Monolayers by Incorporating Single-Atom Dispersed N or P for Enhanced Electrocatalytic Overall Water Splitting. In: Advanced Sustainable Systems, Vol. 6, No. 7, 2022, Art. No. 2100515 -- SCOPUS

[n1] 2022 zz ~ Zhao, Y. - Liu, L. - Liu, S. - Wang, Y. - Li, Y. - Zhang, X.-D.: Electronic and Near-Infrared-II Optical Properties of I-Doped Monolayer MoTe₂: A First-Principles Study. In: ACS Omega, Vol. 7, No. 14, 2022, s. 11956-11963 --SCOPUS

ADD Vedecké práce v domácích karentovaných časopisoch

ADD01 Motola, Martin (aut) [UKOPRCAG] (45%) - Dworniczek, Ewa (aut) (10%) - Satrapinsky, Leonid (aut) [UKOMFKEF] (5%) - Chodaczek, Grzegorz (aut) (5%) - Grzesiak, Jakub (aut) (5%) - Gregor, Maroš (aut) [UKOMFKEF] (5%) - Plecenik, Tomáš (aut) [UKOMFKEF] (5%) - Nowicka, Joanna (aut) (5%) - Plesch, Gustáv (aut) [UKOPRCAG] (15%): UV light-induced photocatalytic, antimicrobial, and antibiofilm performance of anodic TiO₂ nanotube layers prepared on titanium mesh and Ti sputtered on silicon
Lit.: 63 záz.

In: Chemical Papers. - Roč. 73, č. 5 (2019), s. 1163-1172. – ISSN 366-6352

Registrované v:

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SCIE Science Citation Index Expanded

Indikátor časopisu:

IF (JCR) 2019=1,680

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2017=1

Kvartil Q:

wos-jcr -- Q3 [Chemistry, multidisciplinary] -- 2019

Ohlasy (11):

[o1] 2019 ~ Sugiawati, V. A. - Vacandio, F. - Galejeva, A. - Kurbatov, A. P. - Djenizian, T.: Enhanced Electrochemical Performance of Electropolymerized Self-Organized TiO₂ Nanotubes Fabricated by Anodization of Ti Grid. In: Frontiers in Physics, Vol. 7, 2019, Art. No. 179 -- SCI ; SCOPUS

[o1] 2019 ~ Li, Y. H. - Wang, Z.: Green synthesis of multifunctional copper sulfide for efficient adsorption and photocatalysis. In: Chemical Papers, Vol. 73, No. 9, 2019, s. 2297-2308 -- SCI ; SCOPUS

[o1] 2020 ~ Cui, Y. - Jeong, J. Y. - Gao, Y. - Pyo, S. G.: Process Optimization of Via Plug Multilevel Interconnections in CMOS Logic Devices. In: Micromachines, Vol. 11, No. 1, 2020, Art. No. 32 -- SCI ; SCOPUS

[o1] 2020 ~ Johnson, H.A. - Williamson, R.S. - Marquart, M. - Bumgardner, J.D. - Janorkar, A.V. - Roach, M.D.: Photocatalytic activity and antibacterial efficacy of UVA-treated titanium oxides. In: Journal of Biomaterials Applications, Vol.35, No. 4-5, 2020, s. 500-514 -- SCI ; SCOPUS

- [o1] 2020 ~ Mohammed, M.K.A.: Carbon nanotubes loaded ZnO/Ag ternary nanohybrid with improved visible light photocatalytic activity and stability. In: *Optik*, Vol. 217, 2020, Art. No. 64867 -- SCI ; SCOPUS
- [o1] 2020 ~ Seo, H.J. - Lee, J.W. - Na, Y.H. - Boo, J.-H.: Enhancement of photocatalytic activities with nanosized polystyrene spheres patterned titanium dioxide films for water purification. In: *Catalysts*, Vol. 10, No. 8, 2020, Art. No. 886-- SCI ; SCOPUS
- [o1] 2020 ~ Kadam, R.L. - Kim, Y. - Gaikwad, S. - Chang, M. - Tarte, N.H. - Han, S.: Catalytic decolorization of rhodamine B, Congo red, and crystal violet dyes, with a novel niobium oxide anchored molybdenum (Nb-O-Mo). In: *Catalysts*, Vol.10, No. 5, 2020, Art. No. 491 -- WIS ; SCOPUS
- [n1] 2021 zz ~ Navada, K.M. - Nagaraja, G.K. - Ranjitha, R. - D'Souza, J.N. - Kouser, S. - Manasa, D.J.: Synthesis, characterization of phyto-functionalized CuO nano photocatalysts for mitigation of textile dyes in waste water purification, antioxidant, anti-inflammatory and anticancer evaluation. In: *Applied Nanoscience*, Vol. 11, No. 4, 2021, s. 1313-1338 -- SCI ; SCOPUS
- [n1] 2021 zz ~ Valenzuela, L. - Faraldos, M. - Bahamonde, A. - Rosal, R.: Critical review on the use of photocatalysis and photoelectrocatalysis to create antimicrobial surfaces. In: *Current Opinion in Chemical Engineering*, Vol. 34, 2021, Art. No. 100762 -- WOS ; SCOPUS
- [n1] 2022 zz ~ Al Rugaie, O. - Jabir, M.S. - Mohammed, M.K.A. - Abbas, R.H. - Ahmed, D.S. - Sulaiman, G.M. - Mohammed, S.A.A. - Khan, R.A. - Al-Regaiey, K.A. - Alsharidah, M. - Mohany, K.M. - Mohammed, H.A.: Modification of SWCNTs with hybrid materials ZnO-Ag and ZnO-Au for enhancing bactericidal activity of phagocytic cells against *Escherichia coli* through NOX2 pathway. In: *Scientific Reports*, Vol. 12, No. 1, 2022, Art. No. 17203 -- SCOPUS
- [n1] 2022 zz ~ Sarfraz, B. - Qurashi, A.W. - Mazhar, S. - Sultan, A. - Liaqat, I.: Major physical strategies for controlling biofilm formation. In: *Understanding Antibiofilm Activity*. New York : Nova Science Publishers, 2022, S. 53-72 -- SCOPUS

ADD02 Baďurova, Katarina (aut) [UKOPRCAG] (25%) - Motola, Martin (aut) [UKOPRCAG] (25%) - Janczura, Adriana (aut) (10%) - Roch, Tomas (aut) [UKOMFKEF] (10%) - Satrapinsky, Leonid (aut) [UKOMFKEF] (10%) - Greguř, Jan (aut) [UKOMFKEF] (5%) - Dworniczek, Ewa (aut) (5%) - Plesch, Gustav (aut) [UKOPRCAG] (10%): Structural transformation of Ag₃PO₄ and Ag₃PO₄/TiO₂ induced by visible light and Cl⁻ ions: its impact on their photocatalytic, antimicrobial, and antifungal performance
Lit.: 71 zazn.

In: Chemical Papers. - Roč. 74, č. 9 (2020), s. 2785-2797. - ISSN (chybné) 0366-6352

Registrované v:

SCO SCOPUS

CCC Current Content Connect

WOS CC Web of Science Core Collection

SCIE Science Citation Index Expanded

Indikátor časopisu:

IF (JCR) 2020=2,097

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2017=1

Kvartil Q:

wos-jcr -- Q3 [Chemistry, multidisciplinary] -- 2020

Ohlasy (2):

[o1] 2020 ~ Trang, T.N.Q. - Nam, N.D. - Ngoc Tu, L.T. - Quoc, H.P. - Van Man, T. - Ho, V.T.T. - Thu, V.T.H.: In Situ Spatial Charge Separation of an Ir@TiO₂ Multiphase Photosystem toward Highly Efficient Photocatalytic Performance of Hydrogen Production. In: Journal of Physical Chemistry C, Vol. 124, No. 31, 2020, s. 16961-16974 -- SCI ; SCOPUS

[n1] 2021 zz ~ Ma, M. - Wu, S. - Liu, J. - Chen, Y. - Jiang, X. - Pi, X. - Li, H. - Li, X. - Jiang, F.: Preparation and Characterization of Bi₂Fe₄O₉/Ag₃PO₄ Composite Photocatalyst for Degradation of EE₂. In: Chemistry Select, Vol. 6, No. 45, 2021, s. 12590-12603 -- SCOPUS

ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADM01 Motola, Martin (aut) [UKOPRCAG] (50%) - Čapek, Jan (aut) (10%) - Zazpe, Raul (aut) (10%) - Bacova, Jana (aut) (10%) - Hromádka, Luděk (aut) (1%) - Bruckova, Lenka (aut) (1%) - Ng, Siowwoon (aut) (1%) - Handlar, Jiří (aut) (1%) - Spotz, Petr (aut) (1%) - Knotek, Petr (aut) (1%) - Baishya, Kaushik (aut) (1%) - Majtnerová, Pavlína (aut) (1%) - Příkryl, Jan (aut) (1%) - Sopha, Hanna (aut) (1%) - Roušar, Tomáš (aut) (5%) - Macak, Jan M. (aut) (5%): Thin TiO₂ Coatings by ALD Enhance the Cell Growth on TiO₂ Nanotubular and Flat Substrates [elektronický dokument]

Lit.: 62 záz.

In: ACS Applied Bio Materials [elektronický dokument]. - Roč. 3, č. 9 (2020), s. 6447-6456 [online]. - ISSN (online) 2576-6422

Registrované v:

SCO SCOPUS

WOS CC Web of Science Core Collection

Indikátor časopisu:

SJR (SCOPUS) 2020=0,764

SNIP (SCOPUS) 2020=0,625

CiteScore (SCOPUS) 2020=2,5

Kvartil Q:

scimago-sjr -- Q1 [Chemistry (miscellaneous)] -- 2020

scimago-sjr -- Q2 [Biochemistry (medical)] -- 2020

scimago-sjr -- Q2 [Biomaterials] -- 2020

scimago-sjr -- Q2 [Biomedical engineering] -- 2020

Ohlasy (11):

[o1] 2020 ~ Smieszek, A. - Seweryn, A. - Marcinkowska, K. - Sikora, M. - Lawniczak-Jablonska, K. - Witkowski, B.S. - Kuzmiuk, P. - Godlewski, M. - Marycz, K.: Titanium dioxide thin films obtained by atomic layer deposition promotes osteoblasts' viability and differentiation potential while inhibiting osteoclast activity-potential application for osteoporotic bone regeneration. In: *Materials*, Vol. 13, No. 21, 2020, Art. No. 4817 -- SCOPUS

[n1] 2021 zz ~ Hsu, S.-M. - Fares, C. - Xia, X. - Rasel, M.A.J. - Ketter, J. - Afonso Camargo, S.E. - Haque, M.A. - Ren, F. - Esquivel-Upshaw, J.F.: In vitro corrosion of sic-coated anodized ti nano-tubular surfaces. In: *Journal of Functional Biomaterials*, Vol. 12, No. 3, 2021, Art. No. 52 -- SCOPUS

[n1] 2021 zz ~ Sun, S. - Deng, P. - Mu, L. - Hu, X. - Guo, S.: Bionanoscale Recognition Underlies Cell Fate and Therapy. In: *Advanced Healthcare Materials*, Vol. 10, No. 22, 2021, Art. No. 2101260 -- SCOPUS

[n1] 2021 zz ~ Kania, A. - Szindler, M.M. - Szindler, M.: Structure and corrosion behavior of TiO₂ thin films deposited by ALD on a biomedical magnesium alloy. In: *Coatings*, Vol. 11, No. 1, 2021, Art. No. 70 -- SCOPUS

[n1] 2022 zz ~ Simon, A.P. - de Lima, A.S. - Santos, V.A.Q. - Santos, J.S. - Trivinho-Strixino, F. - Sikora, M.S.: Optimization of TiO₂ coatings properties and photochemical Ag-functionalization: Implications on bioactivity and antibacterial activity. In: *Journal of Materials Research*, Vol. 37, No. 23, 2022, s. 4243-4254 -- SCOPUS

[n1] 2022 zz ~ Balasankar, A. - Arthiya, S.E. - Ramasundaram, S. - Sumathi, P. - Arokiyaraj, S. - Oh, T. - Aruchamy, K. - Sriram, G. - Kurkuri, M.D.: Recent Advances in the Preparation and Performance of Porous Titanium-Based Anode Materials for Sodium-Ion Batteries. In: *Energies*, Vol. 15, No. 24, 2022, Art. No. 9495 -- SCOPUS

[n1] 2022 zz ~ Nazarov, D. - Ezhov, I. - Yudintceva, N. - Shevtsov, M. - Rudakova, A. - Kalganov, V. - Tolmachev, V. - Zharova, Y. - Lutakov, O. - Kraeva, L. - Rogacheva, E. - Maximov, M.: Antibacterial and Osteogenic

Properties of Ag Nanoparticles and Ag/TiO₂ Nanostructures Prepared by Atomic Layer Deposition. In: Journal of Functional Biomaterials, Vol. 13, No. 2, 2022, Art. No. 62 -- SCOPUS

[n1] 2022 zz ~ Deepika, B. - Gopikrishna, A. - Girigoswami, A. - Banu, M.N. - Girigoswami, K.: Applications of Nanoscaffolds in Tissue Engineering. In: Current Pharmacology Reports, Vol. 8, No. 3, 2022, s. 171-187 -- SCOPUS

[n1] 2022 zz ~ Nazarov, D. - Ezhov, I. - Yudintceva, N. - Mitrofanov, I. - Shevtsov, M. - Rudakova, A. - Maximov, M.: MG-63 and FetMSC Cell Response on Atomic Layer Deposited TiO₂ Nanolayers Prepared Using Titanium Tetrachloride and Tetraisopropoxide. In: Coatings, Vol. 12, No. 5, 2022, Art. No. 668 -- SCOPUS

[n1] 2022 zz ~ Kylmaoja, E. - Holopainen, J. - Abushahba, F. - Ritala, M. - Tuukkanen, J.: Osteoblast Attachment on Titanium Coated with Hydroxyapatite by Atomic Layer Deposition. In: Biomolecules, Vol. 12, No. 5, 2022, Art. No. 654 -- SCOPUS

[n1] 2022 zz ~ Simon, A.P. - Rodrigues, A. - Santos, J.S. - Trivinho-Strixino, F. - Pereira, B.L. - Lepienski, C.M. - Junior, H.E.Z. - Sikora, M.D.S.: TiO₂NTs bio-inspired coatings: Revisiting electrochemical, morphological, structural, and mechanical properties. In: Nanotechnology, Vol. 33, No. 2, 2022, Art. No. 025706 -- SCOPUS

AGJ Autorské osvedčenia, patenty, objavy

AGJ01 Univerzita Pardubice - Macák, Jan (aut) (25%) - Čičmancová, Veronika (aut) (25%) - Bulánek, Roman (aut) (25%) - Motola, Martin (aut) [UKOPRCAG] (25%): Způsob přípravy submikronových a/nebo mikronových trubic krystalického oxidu wolframového, a submikronové a/nebo mikronové trubice krystalického oxidu wolframového připravené tímto způsobem. - Praha : Úřad průmyslového vlastnictví, 2021. - 17 s.
Patent

P1 Pedagogický výstup publikačnej činnosti ako celok

P101 Motola, Martin (aut) [UKOPRCAG] (100%): Proton-conducting solid oxide electrolysis cells [elektronický dokument]. - 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, 2023. - 60 s. [4,72 AH] [online]
ISBN 978-80-223-5611-4
Mosialek, Michal [rec.]
Šihor, Marcel [rec.]
učebnica pre vysoké školy

V3 Vedecký výstup publikačnéj činnosti z časopisu

V301 Abrar, Sana (aut) (30%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (30%) - Alghamdi, Abdulaziz Salem (aut) (2%) - Khaliq, Abdul (aut) (2%) - Halim, K. S. Abdel (aut) (2%) - Subhani, Tayyab (aut) (4%) - Motola, Martin (aut) [UKOPRCAG] (20%) - Khan, Abdul Faheem (aut) (10%): Synthesis and Characterization of Nanostructured Multi-Layer Cr/SnO₂/NiO/Cr Coatings Prepared via E-Beam Evaporation Technique for Metal-Insulator-Insulator-Metal Diodes [elektronický dokument]

Lit.: 40 záz. n.

In: Materials [elektronický dokument]. - Roč. 15, č. 11 (2022), s. [1-10], art. no. 3906 [online]. - ISSN (online) 1996-1944
článok

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Indikátor časopisu:

IF (JCR) 2022=3.4

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2022=1

Kvartil Q:

wos-jcr -- Q2 [Physics, applied] -- 2022

wos-jcr -- Q3 [Chemistry, physical] -- 2022

wos-jcr -- Q3 [Materials science, multidisciplinary] -- 2022

wos-jcr -- Q2 [Metallurgy & metallurgical engineering] -- 2022

wos-jcr -- Q2 [Physics, condensed matter] -- 2022

V302 Akhtar, Saad (aut) (15%) - Saeed, Nimra (aut) (15%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (15%) - Rehman, Zia Ur (aut) (5%) - Dogar, Salahuddin (aut) (5%) - Mahmood, Waqar (aut) (5%) - Mosialek, Michal (aut) (5%) - Napruszewska, Bogna Daria (aut) (5%) - Ashraf, Muhammad (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (15%) - Khan, Abdul Faheem (aut) (10%): PbS and PbO thin films via e-beam evaporation [elektronický dokument] : morphology, structure, and electrical properties

Lit.: 41 záz. n.

In: Materials [elektronický dokument]. - Roč. 15, č. 19 (2022), s. [1-13], art. no. 6884 [online]. - ISSN (online) 1996-1944

článok

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Indikátor časopisu:

IF (JCR) 2022=3.4

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2022=1

Kvartil Q:

wos-jcr -- Q2 [Physics, applied] -- 2022

wos-jcr -- Q3 [Chemistry, physical] -- 2022

wos-jcr -- Q3 [Materials science, multidisciplinary] -- 2022

wos-jcr -- Q2 [Metallurgy & metallurgical engineering] -- 2022

wos-jcr -- Q2 [Physics, condensed matter] -- 2022

V303 Bacova, Jana (aut) (15%) - Hromádko, Luděk (aut) (15%) - Nyvltova, Pavlina (aut) (15%) - Bruckova, Lenka (aut) (15%) - Motola, Martin (aut) [UKOPRCAG] (15%) - Bulánek, Roman (aut) (5%) - Říhová, Martina (aut) (5%) - Roušar, Tomáš (aut) (5%) - Macak, Jan M. (aut) (10%): Ceramic fibers do not exhibit larger toxicity in pulmonary epithelial cells than nanoparticles of the same chemical composition

Lit.: 80 záz.

In: Environmental Science-Nano. - Roč. 9, č. 12 (2022), s. 4484-4496. - ISSN (print) 2051-8153

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Indikátor časopisu:

IF (JCR) 2022=7.3

Kvartil Q:

wos-jcr -- Q1 [Chemistry, multidisciplinary] -- 2022

wos-jcr -- Q1 [Environmental sciences] -- 2022

wos-jcr -- Q2 [Nanoscience & nanotechnology] -- 2022

V304 Bacova, Jana (aut) (10%) - Knotek, Petr (aut) (5%) - Kopecká, Kateřina (aut) (5%) - Hromádko, Luděk (aut) (5%) - Čapek, Jan (aut) (5%) - Nyvltova, Pavlina (aut) (5%) - Bruckova, Lenka (aut) (5%) - Schroterova, Ladislava (aut) (5%) - Šestakova, Blanka (aut) (5%) - Palarcik, Jiri (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Čížková, Dana (aut) (5%) - Bezrouk, Aleš (aut) (5%) - Handl, Jiri (aut) (5%) - Fiala, Zdeněk (aut) (5%) - Rudolf, Emil (aut) (5%) - Bílková, Zuzana (aut) (5%) - Macak, Jan M. (aut) (5%) - Roušar, Tomáš (aut) (5%): Evaluating the use of TiO₂ nanoparticles for toxicity testing in pulmonary A549 cells

Lit.: 74 záz.

In: International Journal of Nanomedicine. - č. 17 (2022), s. 4211-4225. - ISSN (print) 1176-9114

článok

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Indikátor časopisu:

IF (JCR) 2022=8.0

Kvartil Q:

wos-jcr -- Q1 [Pharmacology & pharmacy] -- 2022

wos-jcr -- Q2 [Nanoscience & nanotechnology] -- 2022

V305 Hanif, Muhammad Bilal (aut) [UKOPRCAG] (20%) - Šihor, Marcel (aut) (20%) - Liapun, Viktoriia (aut) [UKOPREEM] (20%) - Makarov, Hryhorii (aut) [UKOMFKEF] (5%) - Monfort, Olivier (aut) [UKOPRCAG] (5%) - Motola, Martin (aut) [UKOPRCAG] (30%): Porous vs. nanotubular anodic TiO₂: does the morphology really matters for the photodegradation of caffeine? [elektronický dokument]

Lit.: 50 záz.

In: Coatings [elektronický dokument]. - Roč. 12, č. 7 (2022), s. [1-12], art. no. 1002 [online]. - ISSN (online) 2079-6412

článok

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Indikátor časopisu:

IF (JCR) 2022=3.4

Kvartil Q:

wos-jcr -- Q2 [Physics, applied] -- 2022

wos-jcr -- Q2 [Materials science, coatings & films] -- 2022

wos-jcr -- Q3 [Materials science, multidisciplinary] -- 2022

Ohlasy (2):

[n1] 2023 zz ~ Hanková, A. - Kuzminova, A. - Kylián, O.: Nanostructured Semi-Transparent TiO₂ Nanoparticle Coatings Produced by Magnetron-Based Gas Aggregation Source. In: Coatings, Vol. 13, No. 1, 2023, art. no. 51 -- SCI ; SCOPUS

[n1] 2023 zz ~ Michalska-Domańska, M. - Prabucka, K. - Czerwiński, M.: Modification of Anodic Titanium Oxide Bandgap Energy by Incorporation of Tungsten, Molybdenum, and Manganese In Situ during Anodization. In: Materials, Vol. 16, No. 7, 2023, art. no. 2707 -- SCI ; SCOPUS

V306 Hanif, Muhammad Bilal (aut) [UKOPRCAG] (50%) - Rauf, Sajid (aut) (3%) - Qayyum, Sana (aut) (2%) - Šihor, Marcel (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (40%): Investigating the effect of rGO on microstructural and electrical properties of La_{0.9}Sr_{0.1}Ga_{0.8}Mg_{0.2}O₃ in intermediate temperature SOFCs [elektronický dokument]

Lit.: 59 zázn.

In: Sustainable energy and fuels [elektronický dokument]. - Roč. 6, č. 14 (2022), s. 3465-3476 [print]. - ISSN (online) 2398-4902

článok

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Indikátor časopisu:

IF (JCR) 2022=5.6

Kvartil Q:

wos-jcr -- Q2 [Energy & fuels] -- 2022

wos-jcr -- Q2 [Chemistry, physical] -- 2022

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2022

V307 Hanif, Muhammad Bilal (aut) [UKOPRCAG] (20%) - Thirunavukkarasu, Guru Karthikeyan (aut) [UKOPRCAG] (15%) - Liapun, Viktoriia (aut)

[UKOPREEM] (15%) - Makarov, Hryhorii (aut) [UKOMFKEF] (5%) - Gregor, Maroš (aut) [UKOMFKEF] (5%) - Roch, Tomáš (aut) [UKOMFKEF] (5%) - Plecenik, Tomáš (aut) [UKOMFKEF] (5%) - Hensel, Karol (aut) [UKOMFKAFZM] (4%) - Šihor, Marcel (aut) (1%) - Monfort, Olivier (aut) [UKOPRCAG] (5%) - Motola, Martin (aut) [UKOPRCAG] (20%): Fluoride-free synthesis of anodic TiO₂ nanotube layers: a promising environmentally friendly method for efficient photocatalysts

Lit.: 49 záz.

In: Nanoscale. - Roč. 14, č. 32 (2022), s. 11703-11709. - ISSN (print) 2040-3364

článok

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Indikátor časopisu:

IF (JCR) 2022=6.7

Kvartil Q:

wos-jcr -- Q1 [Chemistry, multidisciplinary] -- 2022

wos-jcr -- Q1 [Physics, applied] -- 2022

wos-jcr -- Q1 [Materials science, multidisciplinary] -- 2022

wos-jcr -- Q2 [Nanoscience & nanotechnology] -- 2022

V308 Hanif, Muhammad Bilal (aut) [UKOPRCAG] (50%) - Motola, Martin (aut) [UKOPRCAG] (40%) - Qayyum, Sana (aut) (2%) - Rauf, Sajid (aut) (2%) - Khalid, Azqa (aut) (2%) - Li, Chang-Jiu (aut) (2%) - Li, Cheng-Xin (aut) (2%): Recent advancements, doping strategies and the future perspective of perovskite-based solid oxide fuel cells for energy conversion

Lit.: 156 záz.

In: Chemical Engineering Journal. - č. 428 (2022), s. [1-21]. - ISSN (print) 1385-8947

článok

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Indikátor časopisu:

IF (JCR) 2022=15.1

Kvartil Q:

wos-jcr -- Q1 [Engineering, chemical] -- 2022

wos-jcr -- Q1 [Engineering, environmental] -- 2022

Ohlasy (18):

[n1] 2022 zz ~ Jana, R. - Hajra, S. - Rajaiitha, P.M. - Mistewicz, K. - Kim, H.J.: Recent advances in multifunctional materials for gas sensing applications. In: Journal of Environmental Chemical Engineering, Vol. 10, No. 6, 2022, Art. No.108543 -- SCOPUS

[n1] 2022 zz ~ Kaya, S. - Ozok-Arici, O. - Kivrak, A. - Caglar, A. - Kivrak, H.: Benzotiyofen@Pd as an efficient and stable catalyst for the electrocatalytic oxidation of hydrazine. In: Fuel, Vol. 328, 2022, Art. No. 125355 -- SCOPUS

[n1] 2022 zz ~ Tarasova, N. - Bedarkova, A. - Animitsa, I. - Abakumova, E. - Belova, K. - Kreimesh, H.: Novel High Conductive Ceramic Materials Based on Two-Layer Perovskite BaLa₂In₂O₇. In: International Journal of Molecular Sciences, Vol. 23, No. 21, 2022, Art. No. 12813 -- SCOPUS

[n1] 2022 zz ~ Liu, F. - Fang, L. - Diercks, D. - Kazempoor, P. - Duan, C.: Rationally designed negative electrode for selective CO₂-to-CO conversion in protonic ceramic electrochemical cells. In: Nano Energy, Vol. 102, 2022, Art. No. 107722-- SCOPUS

[n1] 2022 zz ~ Zhang, W. - Wang, H. - Chen, X. - Liu, X. - Meng, J.: Manipulation of rare earth on voltage-driven in-situ exsolution process of perovskite cathodes for low-temperature solid oxide fuel cells. In: Chemical Engineering Journal, Vol. 446, 2022, Art. No. 136934 -- SCOPUS

[n1] 2022 zz ~ Tang, Y.-W. - Xu, L.-L. - Liu, X.-J.: Effectively Improving the Electrocatalytic Activity of PrBaMn₂O_{5+delta} Anode by Doping Co, Ni and Fe. In: Chinese Journal of Applied Chemistry, Vol. 39, No. 10, 2022, s. 1543-1553 -- SCOPUS

[n1] 2022 zz ~ Zhang, F. - Weng, Q. - Zhang, Y. - Ai, N. - Jiang, S.P. - Guan, C. - Shao, Y. - Fang, H. - Luo, Y. - Chen, K.: Facile preparation of electrodes of efficient electrolyte-supported solid oxide fuel cells using a direct assembly approach. In: Electrochimica Acta, Vol. 424, 2022, Art. No. 140643 -- SCOPUS

[n1] 2022 zz ~ Tian, Y. - Yang, C. - Wang, Y. - Xu, M. - Ling, Y. - Pu, J. - Ciucci, F. - Irvine, J.T.S. - Chi, B.: Phase transition with in situ exsolution nanoparticles in the reduced Pr_{0.5}Ba_{0.5}Fe_{0.8}Ni_{0.2}O_{3-delta} electrode for symmetric solid oxide cells. In: Journal of Materials Chemistry A, Vol. 10, No. 31, 2022, s. 16490-16496 -- SCOPUS

[n1] 2022 zz ~ Osinkin, D.A. - Antonova, E.P. - Porotnikova, N.M. - Bogdanovich, N.M.: Features of the electrochemical reaction of hydrogen oxidation on the composite SrFeO₃-based anode for a protonic ceramic fuel

cell. In: International Journal of Energy Research, Vol. 46, No. 9, 2022, s. 12597-12607 -- SCOPUS

[n1] 2022 zz ~ Felli, A. - Mauri, S. - Marelli, M. - Torelli, P. - Trovarelli, A. - Boaro, M.: Insights into the Redox Behavior of Pr_{0.5}Ba_{0.5}MnO₃-delta-Derived Perovskites for CO₂ Valorization Technologies. In: ACS Applied Energy Materials, Vol. 5, No. 6, 2022, s. 6687-6699 – SCOPUS

[n1] 2022 zz ~ Filonova, E. - Medvedev, D.: Recent Progress in the Design, Characterisation and Application of LaAlO₃-and LaGaO₃-Based Solid Oxide Fuel Cell Electrolytes. In: Nanomaterials, Vol. 12, No. 12, 2022, Art. No. 1991 -- SCOPUS

[n1] 2022 zz ~ Tarasova, N. - Galisheva, A. - Animitsa, I. - Belova, K. - Egorova, A. - Abakumova, E. - Medvedev, D.: Layered Perovskites BaM₂In₂O₇ (M = La, Nd): From the Structure to the Ionic (O²⁻, H⁺) Conductivity. In: Materials, Vol. 15, No. 10, 2022, Art. No. 3488 -- SCOPUS

[n1] 2022 zz ~ Tarasova, N. - Galisheva, A. - Animitsa, I. - Korona, D. - Kreimesh, H. - Fedorova, I.: Protonic Transport in Layered Perovskites BaLa_nIn_nO_{3n+1} (n = 1, 2) with Ruddlesden-Popper Structure. In: Applied Sciences, Vol. 12, No. 8, 2022, Art. No. 4082 -- SCOPUS

[n1] 2022 zz ~ Huang, J. - Xie, Z. - Ai, N. - Wang, C.C. - Jiang, S.P. - Wang, X. - Shao, Y. - Chen, K.: A hybrid catalyst coating for a high-performance and chromium-resistive cathode of solid oxide fuel cells. In: Chemical Engineering Journal, Vol. 431, 2022, Art. No. 134281 -- SCOPUS

[n1] 2022 zz ~ Zvonareva, I. - Fu, X.-Z. - Medvedev, D. - Shao, Z.: Electrochemistry and energy conversion features of protonic ceramic cells with mixed ionic-electronic electrolytes. In: Energy and Environmental Science, Vol. 15, No. 2, 2022, s. 439-465 -- SCOPUS

[n1] 2022 zz ~ Seman, R.N.A.R. - Azam, M.A. - Mohamed, M.A. - Ani, M.H.: Effect of Polytetrafluoroethylene Binder Content on Gravimetric Capacitance and Life Cycle Stability of Graphene Supercapacitor. In: International Journal of Automotive and Mechanical Engineering, Vol. 19, No. 3, 2022, s. 9964-9970 -- SCOPUS

[n1] 2022 zz ~ Narayana Sarma, R. - Shivapuji, A.M. - Srinivasaiyah, D.: Solid oxide fuel cells fueled by carbonaceous fuels: A thermodynamics-based approach for safe operation and experimental validation. In: Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Vol. 44, No. 2, 2022, s. 3509-3531 -- SCOPUS

[n1] 2022 zz ~ Klyndyuk, A.I. - Chizhova, E.A. - Kharytonau, D.S. - Medvedev, D.A.: Layered oxygen-deficient double perovskites as promising cathode materials for solid oxide fuel cells. In: Materials, Vol. 15, No. 1, 2022, Art. No. 141 --SCOPUS

V309 Hanif, Muhammad Bilal (aut) [UKOPRCAG] (70%) - Rauf, Sajid (aut) (2%) - Motola, Martin (aut) [UKOPRCAG] (25%) - Babar, Zaheer Ud Din (aut) (1%) - Li, Chang-Jiu (aut) (1%) - Li, Cheng-Xin (aut) (1%): Recent progress of perovskite-based electrolyte materials for solid oxide fuel cells and performance optimizing strategies for energy storage applications
In: Materials research bulletin. - č. 146 (2022), s. [1-20], art. no. 11612. - ISSN (print) 0025-5408

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Indikátor časopisu:

IF (JCR) 2022=5.4

Kvartil Q:

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2022

Ohlasy (9):

[n1] 2022 zz ~ Rendon, R.C. - Salvo, C. - Sepulveda, E. - Arulraj, A. - Sanhueza, F. - Rodriguez, J.J. - Mangalaraja, R.V.: Evaluation of Structural and Functional Properties of La_{0.6}Sr_{0.4}MnO₃ Perovskite Prepared by the Fast Solution Combustion Approach. In: Catalysts, Vol. 12, No. 12, 2022, Art. No. 1636 -- SCOPUS

[n1] 2022 zz ~ Kasyanova, A.V. - Zvonareva, I.A. - Tarasova, N.A. - Bi, L. - Medvedev, D.A. - Shao, Z.: Electrolyte materials for protonic ceramic electrochemical cells: Main limitations and potential solutions. In: Materials Reports: Energy, Vol. 2, No. 4, 2022, Art. No. 100158 -- SCOPUS

[n1] 2022 zz ~ Al-Qaisi, S. - Mushtaq, M. - Alzahrani, J.S. - Alkhalidi, H. - Alrowaili, Z.A. - Rached, H. - Haq, B.U. - Mahmood, Q. - Al-Buriahi, M.S. - Morsi, M.: First-principles calculations to investigate electronic, structural, optical, and thermoelectric properties of semiconducting double perovskite Ba₂YBiO₆. In: Micro and Nanostructures, Vol. 170, 2022, Art. No. 207397 -- SCOPUS

[n1] 2022 zz ~ Supriya, S.: A Review on Lead-Free-Bi_{0.5}Na_{0.5}TiO₃ Based Ceramics and Films: Dielectric, Piezoelectric, Ferroelectric and Energy Storage Performance. In: Journal of Inorganic and Organometallic Polymers and Materials, Vol. 32, No. 10, 2022, s. 3659-3676 -- SCOPUS

[n1] 2022 zz ~ Maiti, T.K. - Majhi, J. - Maiti, S.K. - Singh, J. - Dixit, P. - Rohilla, T. - Ghosh, S. - Bhushan, S. - Chattopadhyay, S.: Zirconia- and ceria-based electrolytes for fuel cell applications: critical advancements toward

sustainable and clean energy production. In: Environmental Science and Pollution Research, Vol. 29, No. 43, 2022, s. 64489-64512 -- SCOPUS
[n1] 2022 zz ~ Filonova, E. - Medvedev, D.: Recent Progress in the Design, Characterisation and Application of LaAlO₃-and LaGaO₃-Based Solid Oxide Fuel Cell Electrolytes. In: Nanomaterials, Vol. 12, No. 12, 2022, Art. No. 1991 -- SCOPUS
[n1] 2022 zz ~ Tarutin, A.P. - Kasyanova, A.V. - Vdovin, G.K. - Lyagaeva, J.G. - Medvedev, D.A.: Nickel-Containing Perovskites, PrNi_{0.4}Fe_{0.6}O₃-sigma and PrNi_{0.4}Co_{0.6}O₃-sigma, as Potential Electrodes for Protonic Ceramic Electrochemical Cells. In: Materials, Vol. 15, No. 6, 2022, Art. No. 2166 -- SCOPUS
[n1] 2022 zz ~ Narayana Sarma, R. - Shivapuji, A.M. - Srinivasaiah, D.: Solid oxide fuel cells fueled by carbonaceous fuels: A thermodynamics-based approach for safe operation and experimental validation. In: Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Vol. 44, No. 2, 2022, s. 3509-3531 -- SCOPUS
[n1] 2022 zz ~ Klyndyuk, A.I. - Chizhova, E.A. - Kharytonau, D.S. - Medvedev, D.A.: Layered oxygen-deficient double perovskites as promising cathode materials for solid oxide fuel cells. In: Materials, Vol. 15, No. 1, 2022, Art. No. 141 --SCOPUS

V310 Cheema, Daniyal Asif (aut) (20%) - Daniel, Muhammad Osama (aut) (20%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (20%) - Alghamdi, Abdulaziz Salem (aut) (3%) - Ramadan, Mohamed (aut) (2%) - Khaliq, Abdul (aut) (5%) - Khan, Abdul Faheem (aut) (5%) - Subhani, Tayyab (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (20%): Intrinsic Properties and Future Perspective of HfO₂/V₂O₅/HfO₂ Multi-Layer Thin Films via E-Beam Evaporation as a Transparent Heat Mirror [elektronický dokument]

Lit.: 34 zázň.

In: Coatings [elektronický dokument]. - Roč. 12, č. 4 (2022), s. [1-11], art. no. 448 [online]. - ISSN (online) 2079-6412

článok

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Indikátor časopisu:

IF (JCR) 2022=3.4

Kvartil Q:

wos-jcr -- Q2 [Physics, applied] -- 2022
wos-jcr -- Q2 [Materials science, coatings & films] -- 2022
wos-jcr -- Q3 [Materials science, multidisciplinary] -- 2022

V311 Irshad, Muneeb (aut) (5%) - Kousar, Naila (aut) (25%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (25%) - Tabish, Asif Nadeem (aut) (4%) - Ghaffar, Abdul (aut) (2%) - Rafique, Muhammad (aut) (2%) - Siraj, Khurram (aut) (2%) - Aslam, Zeeshan (aut) (2%) - Assiri, Mohammed A. (aut) (2%) - Imran, Muhammad (aut) (2%) - Mosialek, Michal (aut) (2%) - Zmrhalová, Zuzana (aut) (2%) - Motola, Martin (aut) [UKOPRCAG] (25%): Investigating the microstructural and electrochemical performance of novel La_{0.3}Ba_{0.7}Zr_{0.5}X_{0.3}Y_{0.2}(X=Gd, Mn, Ce) electrolytes at intermediate temperature SOFCs

Lit.: 56 zázň.

In: Sustainable energy and fuels. - Roč. 6, č. 23 (2022), s. 5384-5391. - ISSN (online) 2398-4902

článok

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Indikátor časopisu:

IF (JCR) 2022=5.6

Kvartil Q:

wos-jcr -- Q2 [Energy & fuels] -- 2022

wos-jcr -- Q2 [Chemistry, physical] -- 2022

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2022

V312 Lu, Yuzheng (aut) (10%) - Wang, Jinping (aut) (10%) - Mushtaq, Naveed (aut) (5%) - Shah, M.A.K. Yousaf (aut) (5%) - Irshad, Sultan (aut) (5%) - Rauf, Sajid (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (20%) - Yan, Senlin (aut) (20%) - Zhu, Bin (aut) (20%): Excellent oxygen reduction electrocatalytic activity of nanostructured CaFe₂O₄ particles embedded microporous Ni-Foam

Lit.: 50 zázň.

In: International Journal of Hydrogen Energy. - Roč. 47, č. 18 (2022), s. 10331-10340. - ISSN (print) 0360-3199

článok

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Indikátor časopisu:

IF (JCR) 2022=7.2

Kvartil Q:

wos-jcr -- Q1 [Electrochemistry] -- 2022

wos-jcr -- Q2 [Energy & fuels] -- 2022

wos-jcr -- Q2 [Chemistry, physical] -- 2022

V313 Rauf, Sajid (aut) (10%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (10%) - Mushtaq, Naveed (aut) (5%) - Tayyab, Zuhra (aut) (5%) - Ali, Nasir (aut) (5%) - Shah, M.A.K. Yousaf (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (10%) - Saleem, Adil (aut) (10%) - Asghar, Muhammad Imran (aut) (10%) - Iqbal, Rashid (aut) (10%) - Yang, Changping (aut) (10%) - Xu, Wei (aut) (10%): Modulating the energy band structure of Mg-doped Sr_{0.5}Pr_{0.5}Fe_{0.2}Mg_{0.2}Ti_{0.6}O_{3-δ} electrolyte with boosted ionic conductivity and electrochemical performance for solid oxide fuel cells

Lit.: 72 strán.

In: ACS Applied Materials & Interfaces. - Roč. 14, č. 38 (2022), s. 43067-43084. - ISSN (print) 1944-8244

článok

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Indikátor časopisu:

IF (JCR) 2022=9.5

AIS (JCR) 2021=1.608

Kvartil Q:

wos-jcr -- Q1 [Materials science, multidisciplinary] -- 2022

wos-jcr -- Q2 [Nanoscience & nanotechnology] -- 2022

V314 Rehman, Irfa (aut) (30%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (30%) - Alghamdi, Abdulaziz Salem (aut) (2%) - Khaliq, Abdul (aut) (2%) - Halim, K. S. Abdel (aut) (2%) - Subhani, Tayyab (aut) (2%) - Motola, Martin (aut) [UKOPRCAG] (20%) - Khan, Abdul Faheem (aut) (12%): Intrinsic

properties of multi-layer TiO₂/V₂O₅/TiO₂ coatings prepared via e-beam evaporation [elektronický dokument]

Lit.: 52 záz.

In: Materials [elektronický dokument]. - Roč. 15, č. 11 (2022), s. [1-11], art. no. 3933 [online]. - ISSN (online) 1996-1944

článok

Registrované v:

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SCIE Science Citation Index Expanded

Indikátor časopisu:

IF (JCR) 2022=3.4

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2022=1

Kvartil Q:

wos-jcr -- Q2 [Physics, applied] -- 2022

wos-jcr -- Q3 [Chemistry, physical] -- 2022

wos-jcr -- Q3 [Materials science, multidisciplinary] -- 2022

wos-jcr -- Q2 [Metallurgy & metallurgical engineering] -- 2022

wos-jcr -- Q2 [Physics, condensed matter] -- 2022

Ohlasy (1):

[n1] 2022 zz ~ Ilie, F. - Ipate, G. - Manaila, F.C.: Tribological Properties Study of Solid Lubrication with TiO₂ Powder Particles. In: Materials, Vol. 15, No. 20, 2022, Art. No. 7145 -- SCOPUS

V315 Saeed, Nimra (aut) (10%) - Akhtar, Saad (aut) (10%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (20%) - hussain, Sajid (aut) (5%) - Dogar, Salahuddin (aut) (5%) - Rehman, Zia Ur (aut) (5%) - Bhatti, Farrukh Aziz (aut) (5%) - Mosialek, Michal (aut) [KAUT] (5%) - Napruszewska, Bogna Daria (aut) (5%) - Motola, Martin (aut) [KAUT] [UKOPRCAG] (20%) - Khan, Abdul Faheem (aut) [KAUT] (10%): Comparison of sputtered and evaporated vanadium pentoxide thin films for resistive microbolometer application [elektronický dokument]

Lit.: 25 záz.

In: Coatings [elektronický dokument]. - Roč. 12, č. 12 (2022), s. [1-15], art. no. 1942 [online]. - ISSN (online) 2079-6412

článok

Registrované v:

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OA Open access

Indikátor časopisu:

IF (JCR) 2022=3.4

Kvartil Q:

wos-jcr -- Q2 [Physics, applied] -- 2022

wos-jcr -- Q2 [Materials science, coatings & films] -- 2022

wos-jcr -- Q3 [Materials science, multidisciplinary] -- 2022

V316 Saleem, M. Shahbaz (aut) (30%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (30%) - Gregor, Maroš (aut) [UKOMFKEF] (5%) - Motola, Martin (aut) [UKOPRCAG] (25%) - Khan, Abdul Faheem (aut) (10%):
Nanostructured multi-layer MgF₂/ITO coatings prepared via e-beam evaporation for efficient electromagnetic interference shielding performance
Lit.: 59 záz. n.

In: Applied Surface Science. - č. 596 (2022), s. [1-10], art. no. 153584. - ISSN (print) 0169-4332

článok

Registrované v:

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Indikátor časopisu:

IF (JCR) 2022=6.7

Kvartil Q:

wos-jcr -- Q1 [Physics, applied] -- 2022

wos-jcr -- Q2 [Chemistry, physical] -- 2022

wos-jcr -- Q1 [Materials science, coatings & films] -- 2022

wos-jcr -- Q1 [Physics, condensed matter] -- 2022

V317 Šihor, Marcel (aut) (15%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (15%) - Thirunavukkarasu, Guru Karthikeyan (aut) [UKOPRCAG] (10%) - Liapun, Viktoriia (aut) [UKOPREEM] (10%) - Edelmannova, Miroslava Filip (aut) (2%) - Roch, Tomáš (aut) [UKOMFKEF] (5%) - Satrapinskyy, Leonid (aut) [UKOMFKEF] (5%) - Plecenik, Tomáš (aut) [UKOMFKEF] (5%) - Rauf, Sajid (aut) (3%) - Hensel, Karol (aut) [UKOMFKAFZM] (5%) - Monfort, Olivier (aut) [UKOPRCAG] (5%) - Motola, Martin (aut)

[UKOPRCAG] (20%): Anodization of large area Ti: versatile material for caffeine photodegradation and hydrogen production

Lit.: 47 záz.

In: Catalysis Science and Technology. - Roč. 12, č. 16 (2022), s. 5045-5052. -

ISSN (print) 2044-4753

článok

Registrované v:

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SCIE Science Citation Index Expanded

Indikátor časopisu:

IF (JCR) 2022=5.0

Kvartil Q:

wos-jcr -- Q2 [Chemistry, physical] -- 2022

Ohlasy (1):

[n1] 2022 zz ~ Hartwich, P. - Pritzel, C. - Killian, M.S.: Transfer of a Photocatalytically Active TiO₂ Nanotube Array onto Cementitious Materials.

In: ACS Applied Materials and Interfaces, Vol. 14, No. 41, 2022, s. 47272-47276 -- SCOPUS

V318 Šihor, Marcel (aut) (40%) - Gowri Sankaran, Sridhar (aut) [UKOPRCAG] (20%) - Martaus, Alexandr (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Mailhot, Gilles (aut) (5%) - Brigante, Marcello (aut) (5%) - Monfort, Olivier (aut) [UKOPRCAG](20%): Anodic TiO₂ nanotube layers for wastewater and air treatments [elektronický dokument] : assessment of performance using sulfamethoxazole degradation and N₂O reduction
Lit.: 36 záz.

In: Molecules [elektronický dokument]. - Roč. 27, č. 24 (2022), s. [1-10], art. no. 8959 [online]. - ISSN (online) 1420-3049

článok

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Indikátor časopisu:

IF (JCR) 2022=4.6

Nordic List Level (Norwegian Register for Scientific Journals, Series and Publishers) 2022=1

Kvartil Q:

wos-jcr -- Q2 [Biochemistry & molecular biology] -- 2022

wos-jcr -- Q2 [Chemistry, multidisciplinary] -- 2022

wos-ais -- Q3 [Biochemistry & molecular biology] -- 2021

V319 Thirunavukkarasu, Guru Karthikeyan (aut) [UKOPRCAG] (20%) - Bacova, Jana (aut) (5%) - Monfort, Olivier (aut) [UKOPRCAG] (20%) - Dworniczek, Ewa (aut) (5%) - Paluch, Emil (aut) (3%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (5%) - Rauf, Sajid (aut) (1%) - Motlochová, Monika (aut) (1%) - Čapek, Jan (aut) (2%) - Hensel, Karol (aut) [UKOMFKAFZM] (5%) - Plesch, Gustáv (aut) [UKOPRCAG] (5%) - Chodaczek, Grzegorz (aut) (3%) - Roušar, Tomáš (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (20%): Critical comparison of aerogel TiO₂ and P25 nanopowders: Cytotoxic properties, photocatalytic activity and photoinduced antimicrobial/ antibiofilm performance

Lit.: 76 zázn.

In: Applied Surface Science. - č. 579 (2022), s. [1-11], art. no. 152145. - ISSN (print) 0169-4332

článok

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Indikátor časopisu:

IF (JCR) 2022=6.7

Kvartil Q:

wos-jcr -- Q1 [Physics, applied] -- 2022

wos-jcr -- Q2 [Chemistry, physical] -- 2022

wos-jcr -- Q1 [Materials science, coatings & films] -- 2022

wos-jcr -- Q1 [Physics, condensed matter] -- 2022

Ohlasy (1):

[n1] 2022 zz ~ Racovita, A.D.: Titanium Dioxide: Structure, Impact, and Toxicity. In: International Journal of Environmental Research and Public Health, Vol. 19, No. 9, 2022, Art. No. 5681 -- SCOPUS

V320 Thirunavukkarasu, Guru Karthikeyan (aut) [UKOPRCAG] (25%) - Gowri Sankaran, Sridhar (aut) [UKOPRCAG] (25%) - Čaplovičová, Mária (aut) (5%) - Satrapinsky, Leonid (aut) [UKOMFKEF] (5%) - Gregor, Maroš (aut) [UKOMFKEF] (5%) - Lavrikova, Aleksandra (aut) [UKOMFKAFZM] (5%) -

Greguš, Ján (aut) [UKOMFKEF] (5%) - Halko, Radoslav (aut) [UKOPRCAL] (5%) - Plesch, Gustáv (aut) [UKOPRCAG] (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Monfort, Olivier (aut) [UKOPRCAG] (10%):

Contribution of photocatalytic and Fenton-based processes in nanotwin structured anodic TiO₂ nanotube layers modified by Ce and V

Lit.: 72 záz.

In: Dalton Transactions. - Roč. 51, č. 28 (2022), s. 10763-10772. - ISSN (print) 1477-9226

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Indikátor časopisu:

IF (JCR) 2022=4.0

Kvartil Q:

wos-jcr -- Q1 [Chemistry, inorganic & nuclear] -- 2022

V321 Villa, Katherina (aut) (20%) - Sopha, Hanna (aut) (20%) - Zelenka, Jaroslav (aut) (20%) - Motola, Martin (aut) [UKOPRCAG] (20%) - Dekanovsky, Lukáš (aut) (2%) - Beketova, Darya (aut) (3%) - Macak, Jan M. (aut) (5%) - Ruml, Tomáš (aut) (5%) - Pumera, Martin (aut) (5%): Enzyme-Photocatalyst Tandem Microrobot Powered by Urea for Escherichia coli Biofilm Eradication

Lit.: 56 záz.

In: Small : New Technology and Biomaterials for Regenerative Medicine. - Roč. 18, č. 36 (2022), s. [1-8]. - ISSN (print) 1613-6810

článok

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Indikátor časopisu:

IF (JCR) 2022=13.3

Kvartil Q:

wos-jcr -- Q1 [Chemistry, multidisciplinary] -- 2022

wos-jcr -- Q1 [Physics, applied] -- 2022

wos-jcr -- Q1 [Chemistry, physical] -- 2022

wos-jcr -- Q1 [Materials science, multidisciplinary] -- 2022

wos-jcr -- Q1 [Nanoscience & nanotechnology] -- 2022

wos-jcr -- Q1 [Physics, condensed matter] -- 2022

Ohlasy (6):

[n1] 2022 zz ~ Shah, Z.H. - Wu, B. - Das, S.: Multistimuli-responsive microrobots: A comprehensive review. In: *Frontiers in Robotics and AI*, Vol. 9, 2022, Art. No. 1027415 -- SCOPUS

[n1] 2022 zz ~ Dong, Y. - Wang, L. - Zhang, Z. - Ji, F. - Chan, T.K.F. - Yang, H. - Chan, C.P.L. - Yang, Z. - Chen, Z. - Chang, W.T. - Chan, J.Y.K. - Sung, J.J.Y. - Zhang, L.: Endoscope-assisted magnetic helical micromachine delivery for biofilm eradication in tympanostomy tube. In: *Science Advances*, Vol. 8, No. 40, 2022, Art. No. eabq8573 -- SCOPUS

[n1] 2022 zz ~ Huang, S. - Gao, Y. - Lv, Y. - Wang, Y. - Cao, Y. - Zhao, W. - Zuo, D. - Mu, H. - Hua, Y.: Applications of Nano/Micromotors for Treatment and Diagnosis in Biological Lumens. In: *Micromachines*, Vol. 13, No. 10, 2022, Art. No.1780 -- SCOPUS

[n1] 2022 zz ~ Ozaydin, M.S. - Doganturk, L. - Ulucan-Karnak, F. - Akdogan, O. - Erkoc, P.: Contemporary Tools for the Cure against Pernicious Microorganisms: Micro-/Nanorobots. In: *Prosthesis*, Vol. 4, No. 3, 2022, s. 424-443 -- SCOPUS

[n1] 2022 zz ~ Deng, Y.-H. - Ricciardulli, T. - Won, J. - Wade, M.A. - Rogers, S.A. - Boppart, S.A. - Flaherty, D.W. - Kong, H.: Self-locomotive, antimicrobial microrobot (SLAM) swarm for enhanced biofilm elimination. In: *Biomaterials*, Vol.287, 2022, Art. No. 121610 -- SCOPUS

[n1] 2022 zz ~ Arque, X. - Patino, T. - Sanchez, S.: Enzyme-powered micro- and nano-motors: key parameters for an application-oriented design. In: *Chemical Science*, Vol. 13, No. 32, 2022, s. 9128-9146 -- SCOPUS

V322 Zhang, Bo (aut) (20%) - Čičmancová, Veronika (aut) (5%) - Beneš, Ludvík (aut) (5%) - Šlang, Stanislav (aut) (5%) - Kutálek, Petr (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (30%) - Wágner, Tomáš (aut) [KAUT] (30%): The Structural Modulation of Amorphous 2D Tungsten Oxide Materials in Magnetron Sputtering [elektronický dokument]

Lit.: 35 zázn.

In: *Advanced Materials Interfaces* [elektronický dokument]. - Roč. 9, č. 35 (2022), s. [1-8], art. no. 2201790 [online]. - ISSN (print) 2196-7350

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Indikátor časopisu:

IF (JCR) 2022=5.4

Kvartil Q:

wos-jcr -- Q2 [Chemistry, multidisciplinary] -- 2022

wos-jcr -- Q2 [Materials science, multidisciplinary] -- 2022

V323 Dobešova, Markéta (aut) (20%) - Kolackova, Martina (aut) (20%) - Pencík, Ondrej (aut) (5%) - Cápál, Petr (aut) (5%) - Chalopusky, Pavel (aut) (5%) - Švec, Pavel (aut) (5%) - Ridoskova, Andrea (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Čičmancová, Veronika (aut) (5%) - Sopha, Hanna (aut) (5%) - Macak, Jan M. (aut) (5%) - Richtera, Lukáš (aut) (5%) - Adam, Vojtech (aut) (5%) - Huska, Dalibor (aut) (5%): Transcriptomic hallmarks of in vitro TiO₂ nanotubes toxicity in *Chlamydomonas reinhardtii* [elektronický dokument]

Lit.: 130 záz.

In: Aquatic Toxicology [elektronický dokument]. - č. 256 (2023), s. [1-14], art. no. 6419 [print]. - ISSN (print) 0166445X

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Indikátor časopisu:

IF (JCR) 2022=4.5

Kvartil Q:

wos-jcr -- Q1 [Marine & freshwater biology] -- 2022

wos-jcr -- Q1 [Toxicology] -- 2022

V324 Gowri Sankaran, Sridhar (aut) [UKOPRCAG] (50%) - Thirunavukkarasu, Guru Karthikeyan (aut) (10%) - Makarov, Hryhorii (aut) [UKOMFKEF] (5%) - Roch, Tomáš (aut) [UKOMFKEF] (5%) - Plesch, Gustáv (aut) [UKOPRCAG] (5%) - Motola, Martin (aut) [UKOPRCAG] (5%) - Mailhot, Gilles (aut) (5%) - Brigante, Marcello (aut) (5%) - Monfort, Olivier (aut) [UKOPRCAG] (10%): New insights into the mechanism of coupled photocatalysis and Fenton-based processes using Fe surface-modified TiO₂ nanotube layers: the case study of caffeine degradation

Lit.: 34 záz.

In: Catalysis Today. - č. 413-415 (2023), s. [1-7], art. no. 114027. - ISSN (print) 0920-5861

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Indikátor časopisu:

IF (JCR) 2022=5.3

Kvartil Q:

wos-jcr -- Q1 [Chemistry, applied] -- 2022

wos-jcr -- Q1 [Engineering, chemical] -- 2022

wos-jcr -- Q2 [Chemistry, physical] -- 2022

Ohlasy (1):

[n1] 2023 zz ~ Filip, M. - Anghel, E. M. - Rednic, V. - Papa, F. - Somacescu, S. - Munteanu, C. - Aldea, N. - Zhang, J. - Parvulescu, V.: Variation in Metal Support Interaction with TiO₂ Loading and Synthesis Conditions for Pt-Ti/SBA-15 Active Catalysts in Methane Combustion. In: Nanomaterials, Vol. 13, No. 10, 2023, art. no. 1647 -- SCI ; SCOPUS

V325 Hanif, Muhammad Bilal (aut) [KAUT] [UKOPRCAG] (30%) - Rauf, Sajid (aut) (5%) - ul Abadeen, Zain (aut) (5%) - Khan, Kashif (aut) (5%) - Tayyab, Zuhra (aut) (5%) - Qayyum, Sana (aut) (5%) - Mosialek, Michal (aut) (5%) - Zongping, Shao (aut) (5%) - Li, Cheng-Xin (aut) (5%) - Motola, Martin (aut) [KAUT] [UKOPRCAG] (30%): Proton-conducting solid oxide electrolysis cells: Relationship of composition-structure-property, their challenges, and prospects

Lit.: 269 zázn.

In: Matter. - Roč. 6, č. 6 (2023), s. 1782-1830. - ISSN (print) 2590-2393

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Indikátor časopisu:

IF (JCR) 2022=18.9

Kvartil Q:

wos-jcr -- Q1 [Materials science, multidisciplinary] -- 2022

V326 Khan, Kashif (aut) (20%) - Babar, Zaheer Ud Din (aut) (15%) - Qayyum, Sana (aut) (10%) - Hanif, Muhammad Bilal (aut) [KAUT] [UKOPRCAG] (15%) - Rauf, Sajid (aut) (5%) - Sultan, Amir (aut) (5%) - Mosialek, Michal (aut) (5%) - Motola, Martin(aut) [KAUT] [UKOPRCAG] (15%) - Lin, Bin (aut) (10%): Design of efficient and durable symmetrical proton ceramic fuel cells at intermediate temperature via B-site doping of Ni inBaCe0.56Zr0.2Ni0.04Y0.2O3 delta

Lit.: 65 strán.

In: Ceramics International. - Roč. 49, č. 11 (2023), s. 16826-16835. - ISSN (print) 0272-8842

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Indikátor časopisu:

IF (JCR) 2022=5.2

Kvartil Q:

wos-jcr -- Q1 [Materials science, ceramics] -- 2022

V327 Khan, Kashif (aut) (10%) - Fu, Bowen (aut) (10%) - Xin, Hu (aut) (10%) - Admasu Beshiwork, bayu (aut) (10%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (10%) - Wu, Jintian (aut) (5%) - Fang, Zixuan (aut) (5%) - Yang, Jian (aut) (5%) - Li, Teng(aut) (2%) - Chen, Cheng (aut) (3%) - Motola, Martin (aut) [UKOPRCAG] (10%) - Xu, Ziqiang (aut) (10%) - Wu, Mengqiang (aut) (10%): Composite polymer electrolyte incorporating WO₃ nanofillers with enhanced performance for dendrite-free solid-state lithium battery

Lit.: 60 strán.

In: Ceramics International. - Roč. 49, č. 3 (2023), s. 4473-4481. - ISSN (print) 0272-8842

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Indikátor časopisu:

IF (JCR) 2022=5.2

Kvartil Q:

wos-jcr -- Q1 [Materials science, ceramics] -- 2022

V328 Khan, Kashif (aut) (10%) - Xin, Hu (aut) (10%) - Fu, Bowen (aut) (10%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (10%) - Li, Pengyu (aut) (10%) - Beshiwork, Bayu Admasu (aut) (10%) - Fang, Zixuan (aut) (10%) - Motola, Martin (aut) [UKOPRCAG](10%) - Xu, Ziqiang (aut) (10%) - Wu, Mengqiang (aut) (10%): Garnet/polymer solid electrolytes for high-performance solid-state lithium metal batteries: The role of amorphous Li₂O₂

Lit.: 59 zázň.

In: Journal of Colloid and Interface Science. - ř. 642 (2023), s. 246-254. -

ISSN (print) 0021-9797

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Indikátor řasopisu:

IF (JCR) 2022=9.9

Kvartil Q:

wos-jcr -- Q1 [Chemistry, physical] -- 2022

V329 Liapun, Viktoriia (aut) [UKOPREEM] (60%) - Motola, Martin (aut) [UKOPRCAG] (40%): Current overview and future perspective in fungal biorecovery of metals from secondary sources

Lit.: 186 zázň.

In: Journal of Environmental Management. - ř. 332 (2023), s. [1-15], art. no.

117345. - ISSN (print) 0301-4797

řlánok

Registrované v:

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Indikátor řasopisu:

IF (JCR) 2022=8.7

Kvartil Q:

wos-jcr -- Q1 [Environmental sciences] -- 2022

V330 Mosialek, Michal (aut) (25%) - Hanif, Muhammad Bilal (aut) [KAUT] [UKOPRCAG] (25%) - Salkus, Tomas (aut) (3%) - Kežionis, Algimantas (aut) (3%) - Kazakevicius, Edvardas (aut) (3%) - Orliukas, Antanas Feliksas (aut) (3%) - Socha, Robert P.(aut) (3%) - Lasocha, Wieslaw (aut) (3%) - Dziubaniuk, Malgorzata (aut) (3%) - Wyrwa, Jan (aut) (4%) - Gregor, Maroš (aut) [UKOMFKEF] (5%) - Motola, Martin (aut) [KAUT] [UKOPRCAG] (20%): Synthesis of Yb and Sc stabilized zirconia electrolyte (Yb_{0.12}Sc_{0.08}Zr_{0.80}O_{2-δ}) for intermediate temperature SOFCs: Microstructural and electrical properties
Lit.: 42 záz. n.
In: Ceramics International. - Roč. 49, č. 10 (2023), s. 15276-15283. - ISSN (print) 0272-8842
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Indikátor časopisu:
IF (JCR) 2022=5.2
Kvartil Q:
wos-jcr -- Q1 [Materials science, ceramics] -- 2022

V331 Sopha, Hanna (aut) (20%) - Spotz, Zdeněk (aut) (10%) - Sepúlveda, Marcela (aut) (5%) - Alijani, Mahnaz (aut) (5%) - Motola, Martin (aut) [UKOPRCAG] (20%) - Hromádko, Luděk (aut) (20%) - Macak, Jan M. (aut) (20%): Intrinsic properties of anodic TiO₂ nanotube layers : In-situ XRD annealing of TiO₂ nanotube layers
Lit.: 68 záz. n.
In: Ceramics International. - Roč. 49, č. 14, Part B (2023), s. 24293-24301. - ISSN (print) 0272-8842
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V332 Thirunavukkarasu, Guru Karthikeyan (aut) (10%) - Hanif, Muhammad Bilal (aut) [UKOPRCAG] (5%) - Liapun, Viktoriia (aut) [UKOPREEM] (5%) - Hensel, Karol (aut) [UKOMFKAFZM] (5%) - Kupčík, Jaroslav (aut) (5%) - Lorinčík, J. (aut) (5%) - Elantyeu, Ivan (aut) (5%) - Monfort, Olivier (aut) [UKOPRCAG] (20%) - Motola, Martin (aut) [UKOPRCAG] (40%):
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Lit.: 63 záz. n.

In: Materials research bulletin. - č. 165 (2023), s. [1-7], art. no. 112322. - ISSN (print) 0025-5408

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Štatistika kategórií (Záznamov spolu: 76):

ADC Vedecké práce v zahraničných karentovaných časopisoch (18)

ADD Vedecké práce v domácich karentovaných časopisoch (2)

ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (1)

AFD Publikované príspevky na domácich vedeckých konferenciách (9)

AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií (2)

AFH Abstrakty príspevkov z domácich vedeckých konferencií (3)

AGJ Autorské osvedčenia, patenty, objavy (1)

BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných) (1)

BFA Abstrakty odborných prác zo zahraničných podujatí (konferencie, ...) (1)

V2 Vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka (2)

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P1 Pedagogický výstup publikačnej činnosti ako celok (1)

Štatistika ohlasov (281):

[o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (77)

[n1] Citácia v publikácii registrovaná v citačných indexoch (204)

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