

Zoznam publikačnej činnosti

Mgr. Olivier Monfort, PhD.

ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách

ABA01 Monfort, Olivier [UKOPRCAG] (95%) - Petrisková, Patrícia [UKOPRCAG] (5%): Binary and Ternary Vanadium Oxides: General Overview, Physical Properties, and Photochemical Processes for Environmental Applications [elektronický dokument]
Lit.: 268 zázň.
In: Processes [elektronický dokument]. - Roč. 9, č. 2 (2021), s. [1-57] [6,27 AH], art. no. 214 [online]. - ISSN (online) 2227-9717
Anonymné recenzné konanie zo strany vydavateľa [rec.]
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2020=2,847
Kvartil Q:
wos-jcr -- Q3 [Engineering, chemical] -- 2020

ADC Vedecké práce v zahraničných karentovaných časopisoch

ADC01 Baďurová, Katarína [UKOPRCAG] (40%) - Monfort, Olivier [UKOPRCAG] (20%) - Satrapinsky, Leonid [UKOMFKEF] (10%) - Dworniczek, Ewa (10%) - Gosciniak, Grazyna (10%) - Plesch, Gustáv [UKOPRCAG] (10%): Photocatalytic activity of Ag₃PO₄ and some of its composites under non-filtered and UV-filtered solar-like radiation
Lit.: 44 zázň., 4 obr, 1 tab.
In: Ceramics International. - Vol. 43, No. 4 (2017), s. 3706-3712. - ISSN 0272-8842
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2017=3,057
Kvartil Q:
wos-jcr -- Q1 [materials science, ceramics] -- 2017
Ohlasy (10):
[o1] 2017 Sharma, N. - Parhizkar, M. - Cong, W. - Mateti, S. - Kirkland, M.A. - Puri, M. - Sutti, A.: RSC Advances, Vol. 7, No. 41, 2017, s. 25437-25443 - SCI
[o1] 2018 Chennah, A. - Naciri, Y. - Ahsaine, H.A. - Taoufyq, A. - Bakiz, B. - Bazzi, L. - Guinneton, F. - Gavarrí, J.-R. - Benhachemi, A.: Mediterranean Journal of Chemistry, Vol. 6, No. 6, 2018, s. 255-266 - SCI
[o1] 2018 Chang, S. - Li, F. - Cai, Y. - Shen, Y.: Digest Journal of Nanomaterials and Biostructures, Vol. 13, No. 2, 2018, s. 369-374 - SCI
[o1] 2018 Zhang, T. - Shao, X. - Zhang, D. - Pu, X. - Tang, Y. - Yin, J. - Ge, B. - Li, W.: Separation and Purification Technology, Vol. 195, 2018, s. 332-338 - SCI
[o1] 2018 Pereira, W.D.S. - Sczancoski, J.C. - Calderon, Y.N.C. - Mastelaro, V.R. - Botelho, G. - Machado, T.R. - Leite, E.R. - Longo, E.: Applied Surface Science, Vol. 440, 2018, s. 61-72 - SCI
[o1] 2019 Shkir, M. - Yahia, I.S. - Kilany, M. - Abutalib, M.M. - AlFaify, S. - Darwish, R.: Ceramics International, Vol. 45, No. 1, 2019, s. 50-55 - SCI ; SCOPUS
[o1] 2019 Li, X. - Xu, P. - Chen, M. - Zeng, G. - Wang, D. - Chen, F. - Tang, W. - Chen, C. - Zhang, C. - Tan, X.: Chemical Engineering Journal, Vol. 366, June, 2019, s. 339-357 - SCI ; SCOPUS
[o1] 2019 Lebogang, L. - Bosigo, R. - Lefatshe, K. - Muiva, C.: Materials Chemistry and Physics, Vol. 236, October, 2019, Art. No. UNSP 121756 - SCI

[o1] 2020 Hamrouni, A. - Azzouzi, H. - Rayes, A. - Palmisano, L. - Ceccato, R. - Parrino, F.: Enhanced solar light photocatalytic activity of ag doped tio2-ag3po4 composites. In: Nanomaterials, Vol. 10, No. 4, 2020, Art. No. 795 - SCOPUS

[o1] 2020 Mehmood, C.T. - Zhong, Z. - Zhou, H. - Zhang, C. - Xiao, Y.: Immobilizing a visible light-responsive photocatalyst on a recyclable polymeric composite for floating and suspended applications in water treatment. In: RSC Advances, Vol.10, No. 60, 2020, s. 36349-36362 - SCOPUS

ADC02 Michal, Róbert [UKOPRCAGd] (16%) - Dworniczek, Ewa (20%) - Čaplovičová, Mária [UKOPRGLG] (20%) - Monfort, Olivier [UKOPRCAG] (16%) - Lianos, Panagiotis (6%) - Čaplovič, Lubomír (6%) - Plesch, Gustáv [UKOPRCAG] (16%): Photocatalytic properties and selective antimicrobial activity of TiO₂(Eu)/CuO nanocomposite

Lit.: 49 zázň., 7 obr., 1 tab.

In: Applied Surface Science. - Vol. 371, May (2016), s. 538-546. - ISSN (print) 0169-4332

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2016=3,387

Kvartil Q:

wos-jcr -- Q2 [chemistry, physical] ; Q1 [materials science, coatings and films] ; Q1 [physics, applied] ; Q2 [physics, condensed matter] -- 2016

Ohlasy (20):

[o1] 2016 Jana, T.K. - Maji, S.K. - Pal, A. - Maiti, R.P. - Dolai, T.K. - Chatterjee, K.: Journal of Colloid and Interface Science, Vol. 480, October, 2016, s. 9-16 - SCI

[o1] 2017 Samsuddin, A.F. - Abd Aziz, S.N.Q.A. - Pung, S.Y.: Applied Physics A-Materials Science & Processing, Vol. 123, No. 1, 2017, Art. No. 101 - SCI

[o1] 2017 He, Z.K. - Fu, J.W. - Cheng, B. - Yu, J.G. - Cao, S.W.: Applied Catalysis B-Environmental, Vol. 205, May, 2017, s. 104-111 - SCI

[o1] 2017 Zhu, L.H. - Zheng, T. - Zheng, J.B. - Yu, C.L. - Zhou, Q.Y. - Hua, J.R. - Zhang, N.W. - Shu, Q. - Chen, B.H.: Applied Surface Science, Vol. 423, November, 2017, s. 836-844 - SCI

[o1] 2017 Pradhan, A.C. - Senthamizhan, A. - Uyar, T.: Chemistry select, Vol. 2, No. 24, 2017, s. 7031-7043 - SCI

[o1] 2017 Roman, L.E. - Castro, F. - Maurtua, D. - Condori, C. - Vivas, D. - Bianchi, A.E. - Paraguay-Delgado, F. - Solis, J.L. - Gomez, M.M.: Revista Colombiana de Quimica, Vol. 46, No. 3, 2017, s. 28-36 - SCI

[o1] 2017 Kong, L.N. - Zhang, X.T. - Wang, C.H. - Wan, F.X. - Li, L.: Chinese Journal of Catalysis, Vol. 38, No. 12, 2017, s. 2120-2131 - SCI

[o1] 2017 Fan, K. - Jin, Z.L. - Yuan, H. - Hu, H.Y. - Bi, Y.P.: Chinese Journal of Catalysis, Vol. 38, No. 12, 2017, s. 2056-2066 - SCI

[o1] 2018 Ghafoor, S. - Hussain, S.Z. - Waseem, S. - Arshad, S.N.: rsc Advances, Vol. 8, No. 36, 2018, s. 20354-20362 - SCI

[o1] 2018 Qu, X.F. - Yi, Y.D. - Qiao, F.Y. - Liu, M.H. - Wang, X.R. - Yang, R. - Meng, H.H. - Shi, L. - Du, F.L.: Ceramics International, Vol. 44, No. 2, 2018, s. 1348-1355 - SCI

[o1] 2018 Ganguly, P. - Byrne, C. - Breen, A. - Pillai, S.C.: Applied Catalysis B-Environmental, Vol. 225, June, 2018, s. 51-75 - SCI

[o1] 2019 Rtimi, S. - Dionysiou, D.D. - Pillai, S.C. - Kiwi, J.: Applied Catalysis B-Environmental, Vol. 240, January, 2019, s. 291-318 - SCI

[o1] 2019 Kumaravel, V. - Imam, M.D. - Badreldin, A. - Chava, R.K. - Do, J.Y. - Kang, M. - Abdel-Wahab, A.: Catalysts, Vol. 9, No. 3, 2019, Art. No. 276 - SCI

[o1] 2019 Li, X. - Yu, J.G. - Jaroniec, M. - Chen, X.B.: Chemical Reviews, Vol. 119, No. 6, 2019, s. 3962-4179 - SCI

[o1] 2019 Huang, J. - Liu, H. - Li, Z. - Zhong, J. - Wang, T. - Li, J. - Li, M.: Solid State Sciences, Vol. 98, December, 2019, Art. No. 106024 - SCOPUS

[o1] 2020 Zhang, P. - Liu, H. - Liang, H. - Bai, J. - Li, C.: Enhanced Charge Separation of alfa-Bi₂O₃-BiOI Hollow Nanotube for Photodegradation Antibiotic Under Visible Light. In: Chemical Research in Chinese Universities, Vol. 36, No. 6, 2020, s. 1227-1233 - SCOPUS

- [o1] 2020 Asenath-Smith, E. - Ambrogi, E.K. - Barnes, E. - Brame, J.A.: CuO enhances the photocatalytic activity of Fe₂O₃ through synergistic reactive oxygen species interactions. In: Colloids and Surfaces A: Physicochemical and Engineering Aspects, Vol. 603, 2020, Art. No. 125179 - SCOPUS
- [o1] 2020 Li, Z. - Huang, J. - Zhong, J. - Li, J.: Visible light-driven photocatalytic properties of bioi-based photocatalyst prepared by different solvents. In: Desalination and Water Treatment, Vol. 182, 2020, s. 253-259 - SCOPUS
- [o1] 2020 Wu, Y. - Deng, X. - Zhang, Z. - Li, W.: Synthesis of BiOBrXC11-X by Solvothermal Method and Its Photocatalytic Activity. In: IOP Conference Series: Materials Science and Engineering, Vol. 768, No. 2. Bristol : IOP Publishing, 2020, Art. No. 022043 - SCOPUS
- [o1] 2020 Chen, Y. - Dou, J. - Pang, Z. - Yu, H. - Chen, C. - Feng, J.: Improving the corrosion resistance of micro-arc oxidation coated Mg-Zn-Ca alloy. In: RSC Advances, Vol. 10, No. 14, 2020, s. 8244-8254 - SCOPUS

ADC03 Monfort, Olivier [UKOPRCAG] (40%) - Roch, Tomáš [UKOMFKEF] (10%) - Satrapinsky, Leonid [UKOMFKEF] (10%) - Gregor, Maroš [UKOMFKEF] (10%) - Plecenik, Tomáš [UKOMFKEF] (10%) - Plecenik, Andrej [UKOMFKEF] (10%) - Plesch, Gustáv [UKOPRCAG] (10%): Reduction of V₂O₅ thin films deposited by aqueous sol-gel method to VO₂(B) and investigation of its photocatalytic activity
Lit. 30 zázň., 7 obr., 2 tab.

In: Applied Surface Science. - Vol. 322 (2014), s. 21-27. - ISSN (print) 0169-4332

Registrované v: vos

Registrované v: scopus

Indikátor časopisu:

IF (JCR) 2014=2,711

Kvartil Q:

wos-jcr -- Q2 [chemistry, physical] ; Q1 [materials science, coatings and films] ; Q1 [physics, applied] ; Q2 [physics, condensed matter] -- 2014

Ohlasy (34):

[o1] 2015 Guo, C.X. - Sun, K. - Ouyang, J. - Lu, X.: Layered V₂O₅/PEDOT nanowires and ultrathin nanobelts fabricated with a silk reeling like process. In: Chemistry of Materials, Vol. 27, No. 16, 2015, s. 5813-5819 - SCI ; SCOPUS

[o1] 2015 Lan, S. D. - Chang, C. J. - Huang, C. F. - Chen, J. K.: Heteroepitaxial TiO₂@W-doped VO₂ core/shell nanocrystal films: preparation, characterization, and application as bifunctional window coatings. In: RSC Advances, Vol. 5, No. 90, 2015, s. 73742-73751 - SCI ; SCOPUS

[o1] 2016 Fatehmulla, A. - Aslam, M. - Farooq, W. A. - Ali, S. M. - Atif, M. - Al Dhafiri, A. M. - Yakuphanoglu, F.: Influence of Laser Exposure on the Physical Properties of Nano V₂O₅ Films Grown by Thermal Evaporation. In: Theoretical and Experimental Chemistry, Vol. 51, No. 6, 2016, s. 375-379 - SCI ; SCOPUS

[o1] 2016 Liu, H. - Wan, D. - Ishaq, A. - Chen, L. - Guo, B. - Shi, S. - Luo, H. - Gao, Y.: Sputtering Deposition of Sandwich-Structured V₂O₅/Metal (V, W)/V₂O₅ Multilayers for the Preparation of High-Performance Thermally Sensitive VO₂ Thin Films with Selectivity of VO₂ (B) and VO₂ (M) Polymorph. In: ACS Applied Materials & Interfaces, Vol. 8, No. 12, 2016, s. 7884-7890 - SCI ; SCOPUS

[o1] 2016 Wang, S. - Liu, M. - Kong, L. - Long, Y. - Jiang, X. - Yu, A.: Recent progress in VO₂ smart coatings: Strategies to improve the thermochromic properties. In: Progress in Materials Science, Vol. 81, 2016, s. 1-54 - SCOPUS

[o1] 2016 Wu, S. Y. - Su, S. K. - Chang, C. J. - Huang, C. H. - Chen, J. K.: Sol-gel-synthesized titania-vanadia nanocrystal films for triple-functional window coatings. In: Ceramics International, Vol. 42, No. 15, 2016, s. 17610-17619 - SC

[o1] 2016 Yu, W. - Li, S. - Huang, C.: Phase evolution and crystal growth of VO₂ nanostructures under hydrothermal reactions. In: Rsc Advances, Vol. 6, No. 9, 2016, s. 7113-7120 - SCI

[o1] 2016 Zheng, J. - Calvillo, L. - Rizzi, G. A. - Granozzi, G.: VO₂/V₂O₅:Ag Nanostructures on a DVD as Photoelectrochemical Sensors. In: ChemPlusChem, Vol. 81, No. 4, 2016, s. 391-398 - SCI ; SCOPUS

[o1] 2016 Zhou, P. Y. - Cheng, C. C. - Huang, C. H. - Chen, J. K.: Hexagonal pillar structure of heteroepitaxial titania-vanadia nanocrystal films for high performance in thermochromic and photocatalytic properties. In: Physical Chemistry Chemical Physics, Vol. 18, No. 13, 2016, s. 9088-9101 - SCI ; SCOPUS

- [o1] 2017 Benkahoul, M. - Zayed, M. K. - Solieman, A. - Alamri, S. N.: Spray deposition of V4O9 and V2O5 thin films and post-annealing formation of thermochromic VO2. In: Journal of Alloys and Compounds, Vol. 704, 2017, s. 760-768 - SCI
- [o1] 2017 Khan, G. R. - Ahmad, B.: Effect of quantum confinement on thermoelectric properties of vanadium dioxide nanofilms. In: Applied Physics A-Materials Science & Processing, Vol. 123, No. 12, 2017, Art. No. 795 - SC
- [o1] 2017 Manthrammel, M. A. - Fatehmulla, A. - Al-Dhafiri, A. M. - Alshammari, A. S. - Khan, A.: Temperature Dependent Surface and Spectral Modifications of Nano V2O5 Films. In: Optics and Spectroscopy, Vol. 122, No. 3, 2017, s. 420-425 - SCI
- [o1] 2017 Zinzuvadiya, S. - Joshi, U. S.: Optical and Electrical Studies of Possible VO2 Thin Film Nanostructures Grown Using Laser Ablated V2O5. In: Functional Oxides and Nanomaterials : AIP Conference Proceedings, Vol. 1837. Melville : AmerInst Physics, 2017, Art. No. UNSP 040053 - CPCI-S
- [o1] 2018 Singh, M. - Kumar, P. - Reddy, G. B.: Effect of Ar, O-2, and N-2 Plasma on the Growth and Composition of Vanadium Oxide Nanostructured Thin Films. In: Advanced Materials Interfaces, Vol. 5, No. 18, 2018, Art. No. 1800612 - SCI
- [o1] 2018 Youn, J. W. - Lee, S. J. - Kim, K. S. - Kim, D. U.: Adhesion characteristics of VO2 ink film sintered by intense pulsed light for smart window. In: Applied Surface Science, Vol. 441, 2018, s. 508-514 - SCI
- [o1] 2019 Acosta, D. - Chavez-Esquivel, G. - Magana, C. - Hernandez, F. - Perez-Pacheco, A. - Huerta, L.: Physical properties and phase transition observed in vanadium oxide thin films deposited by RF magnetron sputtering. In: Materials Research Express, Vol. 6, No. 5, 2019, Art. No. 056415 - SCI ; SCOPUS
- [o1] 2019 Dey, K. K. - Jha, S. - Kumar, A. - Gupta, G. - Srivastava, A. K. - Ingole, P. P.: Layered vanadium oxide nanofibers as impressive electrocatalyst for hydrogen evolution reaction in acidic medium. In: Electrochimica Acta, Vol. 312, 2019, s. 89-99 - SCI ; SCOPUS
- [o1] 2019 Le, T. K. - Kang, M. - Kim, S. W.: A review on the optical characterization of V2O5 micro-nanostructures. In: Ceramics International, Vol. 45, No. 13, 2019, s. 15781-15798 - SCI ; SCOPUS
- [o1] 2019 Prasad, V. P. - Dey, B. - Bulou, S. - Schenk, T. - Bahlawane, N.: Study of VO2 thin film synthesis by atomic layer deposition. In: Materials Today Chemistry, Vol. 12, 2019, s. 332-342 - SCI ; SCOPUS
- [o1] 2019 Reddy, I. N. - Sreedhar, A. - Shim, J. - Gwag, J. S.: Multifunctional monoclinic VO2 nanorod thin films for enhanced energy applications: Photoelectrochemical water splitting and supercapacitor. In: Journal of Electroanalytical Chemistry, Vol. 835, 2019, s. 40-47 - SCI ; SCOPUS
- [o1] 2019 Vostakola, M. F. - Mirkazemi, S. M. - Yekta, B. E.: Structural, morphological, and optical properties of W-doped VO2 thin films prepared by sol-gel spin coating method. In: International Journal of Applied Ceramic Technology, Vol. 16, No. 3, 2019, s. 943-950 - SCI ; SCOPUS
- [o1] 2019 Youn, J. W. - Lee, S. J. - Kim, K. S. - Kim, D. U.: Effect of annealing condition on the crystallinity of VO2 (beta) thin-films fabricated by a solution-based process. In: Japanese Journal of Applied Physics, Vol. 58, No. 10, 2019, Art. No. 105501 - SCI ; SCOPUS
- [o1] 2020 Acosta, D. - Magana, C. - Hernandez, F. - Chavez-Esquivel, G. - Eduardo Cortes-Cordova, D. - Huerta, L. - Uriel Valdes-Martinez, O.: Temperature effects on VO2 thin films deposited by RF sputtering for the degradation by photocatalysis of methylene blue and naproxen. In: International Journal of Chemical Reactor Engineering, Vol. 18, No. 7, 2020, Art. No. 20190214 - SCI
- [o1] 2020 Firdous, M. - Butt, F. K. - Zaman, S. - Ahmad, J. - Farooq, M. U. H. - Safdar, M. - Hussain, S. - Zapata, M. J. M. - Maqsood, H. - Cao, C.: Diameter dependent optical and field emission properties of vanadium pentoxide nanobelts. In: Ceramics International, Vol. 46, No. 10, 2020, s. 16135-16141 - SCI ; SCOPUS
- [o1] 2020 Goyal, V. - Singh, V. P. - Gupta, R.: Inherent Property of Formation of (001) - Oriented Vanadium Pentoxide Nanorods Over Glass Substrate through Different Techniques & their Optical Behavior Analysis. In: 3rd International Conference on Condensed Matter & Applied Physics (Icc-2019) : AIP Conference Proceedings, Vol. 2220. Melville : Amer Inst Physics, 2020, Art. No. 020106 - CPCI-S
- [o1] 2020 Makarevich, A. - Makarevich, O. - Ivanov, A. - Sharovarov, D. - Eliseev, A. - Amelichev, V. - Boytsova, O. - Gorodetsky, A. - Navarro-Cia, M. - Kaul, A.: Hydrothermal epitaxy growth of self-organized vanadium dioxide 3D structures with metal-insulator transition and THz transmission switch properties. In: CrystEngComm, Vol. 22, No. 15, 2020, s. 2612-2620 - SCI ; SCOPUS

- [o1] 2020 Park, S. K. - Nakhanivej, P. - Shin, K. H. - Yeon, J. S. - Kang, M. S. - Lee, J. B. - Kim, H. J. - Hong, W. G. - Park, H. S.: Thread like structured VO₂ microspheres for improved lithium-ion storage kinetics and stability. In: Journal of Alloys and Compounds, Vol. 842, 2020, Art. No. 155721 - SCOPUS
- [o1] 2020 Raj, I. L. P. - Christy, A. J. - Prabu, R. D. - Chidhambaram, N. - Shkir, M. - AlFaify, S. - Khan, A.: Significance of Ni doping on structure-morphology-photoluminescence, optical and photocatalytic activity of CBD grown ZnO nanowires for opto-photocatalyst applications. In: Inorganic Chemistry Communications, Vol. 119, 2020, Art. No. 108082 - SCI ; SCOPUS
- [o1] 2020 Sari, F. N. I. - Lu, S. H. - Ting, J. M.: Wide-bandgap HfO₂-V₂O₅ nanowires heterostructure for visible light-driven photocatalytic degradation. In: Journal of the American Ceramic Society, Vol. 103, No. 3, 2020, s. 2252-2261 - SCI ; SCOPUS
- [o1] 2020 Xu, C. - Liu, G. - Li, M. - Li, K. - Luo, Y. - Long, Y. - Li, G.: Optical switching and nanothermochromic studies of VO₂ (M) nanoparticles prepared by mild thermolysis method. In: Materials & Design, Vol. 187, 2020, Art. No. 108396 - SCI ; SCOPUS
- [o1] 2020 Bhupathi, S. - Wang, S. - Abutoama, M. - Balin, I. - Wang, L. - Kazansky, P.G. - Long, Y. - Abdulhalim, I.: Femtosecond Laser-Induced Vanadium Oxide Metamaterial Nanostructures and the Study of Optical Response by Experiments and Numerical Simulations. In: ACS Applied Materials and Interfaces, Vol. 12, No. 37, 2020, s. 41905-41918 - SCOPUS
- [o1] 2021 Madhuri, P. L. - Bhupathi, S. - Shuddhodana, S. - Judeh, Z. M. A. - Yang, S. H. - Long, Y. - Abdulhalim, I.: Hybrid vanadium dioxide-liquid crystal tunable non-reciprocal scattering metamaterial smart window for visible and infrared radiation control. In: Optical Materials Express, Vol. 11, No. 9, 2021, s. 3023-3037 - SCI ; SCOPUS
- [o1] 2021 Pepe, Y. - Tutel, Y. - Yildiz, E. A. - Karatay, A. - Unalan, H. E. - Elmali, A.: Thermally Induced Phase Transition and Defect-Assisted Nonlinear Absorption and Optical Limiting in Nanorod Morphology V₂O₅ Thin Films. In: Advanced Engineering Materials, Vol. 23, No. 10, 2021, Art. No. 2100468 - SCI ; SCOPUS
- [o1] 2021 Sarica, E. - Bilgin, V. - Akyuz, I.: Phase transition of ultrasonically sprayed VO_x thin films: The role of substrate temperature. In: Optik, Vol. 228, 2021, Art. No. 166231 - SCI ; SCOPUS

ADC04 Monfort, Olivier [UKOPRCAG] (50%) - Pop, Lucian Cristian (10%) - Sfaelou, Stavroula (10%) - Plecenik, Tomáš [UKOMFKEF] (5%) - Roch, Tomáš [UKOMFKEF] (5%) - Dracopoulos, Vassilios (5%) - Stathatos, Elias (5%) - Plesch, Gustáv [UKOPRCAG] (5%) - Lianos, Panagiotis (5%): Photoelectrocatalytic hydrogen production by water splitting using BiVO₄ photoanodes

Lit.: 17 zázň., 9 obr., 1 tab.

In: Chemical Engineering Journal. - Vol. 286, February (2016), s. 91-97. - ISSN 1385-8947

URL: <http://dx.doi.org/10.1016/j.cej.2015.10.043>

Registrované v: wos

Registrované v: scopus

Indikátor časopisu:

IF (JCR) 2016=6,216

Kvartil Q:

wos-jcr -- Q1 [engineering, environmental] ; Q1 [engineering, chemical] -- 2016

Ohlasy (52):

[o1] 2016 Kumar, P.: Photoelectrochemical Splitting of Water to Produce a Power Appetizer Hydrogen: A Green System for Future (A Short Review). In: Oriental Journal of Chemistry, Vol. 32, No. 3, 2016, s. 1473-1483 - SCI ; SCOPUS

[o1] 2016 Li, L. - Huang, Y. P. - Zhang, A. Q. - Xiang, M. M. - Yang, J. - Jia, M. K.: Synthesis and visible-light photocatalysis performance research of BiVO₄/Bi₆O₆(OH)₃(NO₃)₃ composite photocatalyst. In: Journal of Molecular Catalysis, Vol.30, No. 5, 2016, s. 470-479 - SCOPUS

[o1] 2016 Paulino Ribeiro, F. W. - Gromboni, M. F. - Marken, F. - Mascaro, L. H.: Photoelectrocatalytic properties of BiVO₄ prepared with different alcohol solvents. In: International Journal of Hydrogen Energy, Vol. 41, No. 39, 2016, s.17380-17389 - SCI ; SCOPUS

[o1] 2016 Sfaelou, S. - Lianos, P.: Photoactivated Fuel Cells (PhotoFuelCells). An alternative source of renewable energy with environmental benefits. In: AIMS Materials Science, Vol. 3, No. 1, 2016, s. 270-288 - SCI

[o1] 2016 Zhao, J. - Yang, Y. - Dong, X. - Ma, Q. - Yu, W. - Wang, J. - Liu, G.: Electrospinning construction of Bi₂WO₆/RGO composite nanofibers with significantly enhanced photocatalytic water splitting activity. In: *Rsc Advances*, Vol. 6, No.69, 2016, s. 64741-64748 - SC ; SCOPUS

[o1] 2017 Attia, Y. - Samer, M.: Metal clusters: New era of hydrogen production. In: *Renewable & Sustainable Energy Reviews*, Vol. 79, 2017, s. 878-892 - SCI ; SCOPUS

[o1] 2017 Kandi, D. - Martha, S. - Thirumurugan, A. - Parida, K. M.: Modification of BiOI Microplates with CdS QDs for Enhancing Stability, Optical Property, Electronic Behavior toward Rhodamine B Decolorization, and Photocatalytic Hydrogen Evolution. In: *Journal of Physical Chemistry C*, Vol. 121, No. 9, 2017, s. 4834-4849 - SCI ; SCOPUS

[o1] 2017 Kanigaridou, Y. - Petala, A. - Frontistis, Z. - Antonopoulou, M. - Solakidou, M. - Konstantinou, I. - Deligiannakis, Y. - Mantzavinos, D. - Kondarides, D. I.: Solar photocatalytic degradation of bisphenol A with CuOx/BiVO₄: Insights into the unexpectedly favorable effect of bicarbonates. In: *Chemical Engineering Journal*, Vol. 318, 2017, s. 39-49 - SCI ; SCOPUS

[o1] 2017 Pang, Y. - Xu, G. - Feng, Q. - Liu, J. - Lv, J. - Zhang, Y. - Wu, Y.: Synthesis of alpha-Bi₂Mo₃O₁₂/TiO₂ Nanotube Arrays for Photoelectrochemical COD Detection Application. In: *Langmuir*, Vol. 33, No. 36, 2017, s. 8933-8942 - SCI ; SCOPUS

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ADC05 Monfort, Olivier [UKOPRCAG] (30%) - Sfaelou, Stavroula (20%) - Satrapinsky, Leonid [UKOMFKEF] (10%) - Plecenik, Tomáš [UKOMFKEF] (10%) - Roch, Tomáš [UKOMFKEF] (10%) - Plesch, Gustáv [UKOPRCAG] (10%) - Lianos, Panagiotis (10%): Comparative study between pristine and Nb-modified BiVO₄ films employed for photoelectrocatalytic production of H₂ by water splitting and for photocatalytic degradation of organic pollutants under simulated solar light

Lit.: 50 zázň., 6 obr., 1 tab.

In: *Catalysis Today*. - Vol. 280, Part 1, Sp. Iss. (2017), s. 51-57. - ISSN 0920-5861

Registrované v: vos

Registrované v: scopus

Indikátor časopisu:

IF (JCR) 2017=4,667

Kvartil Q:

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

Ohlasy (34):

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ADC06 Monfort, Olivier [UKOPRCAG] (50%) - Raptis, Dimitrios (10%) - Satrapinsky, Leonid [UKOMFKEF] (10%) - Roch, Tomáš [UKOMFKEF] (10%) - Plesch, Gustáv [UKOPRCAG] (10%) - Lianos, Panagiotis (10%): Production of hydrogen by water splitting in a photoelectrochemical cell using a BiVO₄/TiO₂ layered photoanode
Lit.: 40 záz., 6 obr.

In: *Electrochimica Acta*. - Vol. 251, October (2017), s. 244-249. - ISSN 0013-4686

Registrované v: wos

Registrované v: scopus

Indikátor časopisu:

IF (JCR) 2017=5,116

Kvartil Q:

wos-jcr -- Q1 [electrochemistry] -- 2017

Ohlasy (30):

[o1] 2018 Cai, Y.F. - Chang, S.Y. - Liu, Y.F. - Shen, Y. - Li, F.F. - Li, L.Y. - Zhu, S.S. - Zheng, X.Y.:

Hydrothermal-photoreduction synthesis of novel Ag@AgBr/BiVO₄ plasmonic heterojunction photocatalysts with enhanced activity under whitelight emitting diode (wLED) irradiation. In: *Journal of Materials Science-Materials in Electronics*, Vol. 29, No. 20, 2018, s. 17602-17611 - SCI ; SCOPUS

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[o1] 2018 Zhang, Y.F. - Fu, F. - Li, Y.Z. - Zhang, D.S. - Chen, Y.Y.: One-Step Synthesis of Ag@TiO₂ Nanoparticles for Enhanced Photocatalytic Performance. In: *Nanomaterials*, Vol. 8, No. 12, 2018, Art. No. 1032 - SCI ; SCOPUS

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[o1] 2020 Hu, C.Y. - E, L. - Hu, K.K. - Lai, L.Y. - Zhao, D. - Zhao, W. - Rong, H.: Simple synthesis of 3D flower-like g-C₃N₄/TiO₂ composite microspheres for enhanced visible-light photocatalytic activity. In: *Journal of Materials Science*, Vol. 55, No. 1, 2020, s. 151-162 - SCI ; SCOPUS

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- [o1] 2020 Kargul, J. - Kiliszek, M.: Artificial Photosynthesis Current Advances and Challenges. In: Bioelectrochemical Interface Engineering. Hoboken : John Wiley & Sons Inc, 2020, s. 271-309 - BKCI-S
- [o1] 2020 Li, X. - Zhang, T. - Chen, Y. - Fu, Y. - Su, J. - Guo, L.: Hybrid nanostructured Copper(II) phthalocyanine/TiO₂ films with efficient photoelectrochemical performance. In: Chemical Engineering Journal, Vol. 382, 2020, Art. No. 122783- SCI ; SCOPUS
- [o1] 2020 Peleyeju, G. M. - Umukoro, E. H. - Babalola, J. O. - Arotiba, O. A.: Solar-Light-Responsive Titanium-Sheet-Based Carbon Nanoparticles/B-BiVO₄/WO₃ Photoanode for the Photoelectrocatalytic Degradation of Orange II Dye Water Pollutant. In: Acs Omega, Vol. 5, No. 10, 2020, s. 4743-4750 - SCI ; SCOPUS
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- [o1] 2020 Thakur, A. - Ghosh, D. - Devi, P. - Kim, K. H. - Kumar, P.: Current progress and challenges in photoelectrode materials for the production of hydrogen. In: Chemical Engineering Journal, Vol. 397, 2020, Art. No. 125415 - SCI ; SCOPUS
- [o1] 2020 Caron, S. - Roger, M. - Wullenkord, M.: Selection of solar concentrator design concepts for planar photoelectrochemical water splitting devices. In: Energies, Vol. 13, No. 19, 2020, Art. No. 5196 - SCI ; SCOPUS
- [o1] 2020 Mansour, S. - Akkari, R. - Ben Chaabene, S. - Said, Zina M.: Effect of Surface Site Defects on Photocatalytic Properties of BiVO₄/TiO₂ Heterojunction for Enhanced Methylene Blue Degradation. In: Advances in Materials Science and Engineering, Vol. 2020, 2020, Art. No. 6505301 - SCI ; SCOPUS
- [o1] 2020 Naumi, F. - Ivandini, T.A. - Mulyana, J.Y. - Pratomo, U. - Khalil, M.: Influence of TiO₂'s (101) crystal facet exposure on the photoelectroactivity of TiO₂nanooctahedra/BiVO₄nanocomposite. In: IOP Conference Series: Materials Science and Engineering, Vol. 902, No. 1. Bristol : IOP Publishing Ltd, 2020, Art. No. 012002 - SCOPUS
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- [o1] 2021 He, L. - Yang, Z. - Gong, C. - Liu, H. - Zhong, F. - Hu, F. - Zhang, Y. - Wang, G. - Zhang, B.: The dual-function of photoelectrochemical glucose oxidation for sensor application and solar-to-electricity production. In: Journal of Electroanalytical Chemistry, Vol. 882, 2021, Art. No. 114912 - SCI ; SCOPUS
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- [o1] 2021 Subramanyam, P. - Meena, B. - Suryakala, D. - Subrahmanyam, C.: Influence of Bi-Cu microstructure on the photoelectrochemical performance of BiVO₄ photoanode for efficient water splitting. In: Solar Energy Materials and Solar Cells, Vol. 232, 2021, Art. No. 111354 - SCI ; SCOPUS
- [o1] 2021 Zhang, J. - Huang, Y. - Lu, X. - Yang, J. - Tong, Y.: Enhanced BiVO₄ Photoanode Photoelectrochemical Performance via Borate Treatment and a NiFeOx Cocatalyst. In: ACS Sustainable Chemistry and Engineering, Vol. 9, No. 24, 2021, s.8306-8314 - SCI ; SCOPUS

ADC07 Monfort, Olivier [UKOPRCAG] (70%) - Usman, Muhammad (10%) - Soutrel, Isabelle (10%) - Hanna, Khalil (10%): Ferrate(VI) based chemical oxidation for the remediation of aged PCB contaminated soil: Comparison with conventional oxidants and study of limiting factors
Lit.: 36 zázň.
In: Chemical Engineering Journal. - Roč. 355 (2019), s. 109-117. - ISSN (print) 1385-8947
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:

IF (JCR) 2019=10.652

Kvartil Q:

wos-jcr -- Q1 [Engineering, chemical] -- 2019

ADC08 Monfort, Olivier [UKOPRCAG] (80%) - Hanna, Khalil (20%): Unexpected bias of freeze-drying on the performance assessment of chemical oxidation of soils contaminated by polychlorinated biphenyls

Lit.: 42 zázn.

In: Environmental Chemistry Letters. - Roč. 17, č. 3 (2019), s. 1391-1396. - ISSN (print) 1610-3653

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2019=5.922

Kvartil Q:

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

ADC09 Monfort, Olivier [UKOPRCAG] (60%) - Usman, Muhammad (20%) - Hanna, Khalil (20%): Ferrate(VI) oxidation of pentachlorophenol in water and soil

Lit.: 36 zázn.

In: Chemosphere. - Roč. 253 (2020), s. [1-7], art. no. 126550. - ISSN (print) 0045-6535

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2020=7,086

Kvartil Q:

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

ADC10 Monfort, Olivier [UKOPRCAG] (70%) - Voyard, Guillaume (10%) - Brigante, Marcello (10%) - Mailhot, Gilles (10%): Innovative depollution treatment using multi-valent iron species: from fundamental study to application in municipal wastewater

Lit.: 57 zázn.

In: Environmental Science and Pollution Research. - Roč. 27, č. 16 (2020), s. 19736-19745. - ISSN (print) 0944-1344

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2020=4.223

Kvartil Q:

wos-jcr -- Q2 [Environmental sciences] -- 2020

ADC11 Monfort, Olivier (30%) - Dworniczek, Ewa (25%) - Satrapinskyy, Leonid [UKOMFKEF] (12%) - Seniuk, Alicja (10%) - Nýblová, Daniela [UKOPRCAG] (5%) - Plesch, Gustáv [UKOPRCAG] (18%): An efficient Nb-modified BiVO₄ film for photo-induced bacterial inactivation and photocatalytic removal of organic pollutants

Lit.: 27 zázn.

In: New Journal of Chemistry. - Roč. 42, č. 8 (2018), s. 5664-5667. - ISSN (print) 1144-0546

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2018=3,069

Kvartil Q:

wos-jcr -- Q2 [Chemistry, multidisciplinary] -- 2018

ADC12 Monfort, Olivier (50%) - Plesch, Gustáv [UKOPRCAG] (50%): Bismuth vanadate-based semiconductor photocatalysts: a short critical review on the efficiency and the mechanism of photodegradation of organic pollutants

Lit.: 142 záz.

In: Environmental Science and Pollution Research. - Roč. 25, č. 20 (2018), s. 19362-19379. - ISSN (print) 0944-1344

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2018=2,914

Kvartil Q:

wos-jcr -- Q2 [Environmental sciences] -- 2018

Ohlasy (12):

[o1] 2019 Petala, A. - Spyrou, D. - Frontistis, Z. - Mantzavinos, D. - Kondarides, D.I.: Catalysis Today, Vol. 328, May, 2019, s. 223-229 - SCI

[o1] 2019 Yu, Q.N. - Li, G.Q. - Zhang, F.: Catalysis Science & Technology, Vol. 9, No. 19, 2019, s. 5333-5338 - SCI

[o1] 2019 Huo, J.Q. - Yu, D.H. - Li, H.Q. - Luo, B.C. - Arulsamy, N.: RSC Advances, Vol. 9, No. 67, 2019, s. 39323-39331 - SCI

[o1] 2020 Li, H.F. - Zhang, Y.H. - Ou, H.L. - Ma, T.Y. - Huang, H.W.: Colloids and Surfaces A-Physicochemical and Engineering Aspects, Vol. 584, January, 2020, Art. No. 123994 - SCI

[o1] 2020 Orona-Navar, C. - Levchuk, I. - Moreno-Andres, J. - Park, Y. - Mikola, A. - Mahlknecht, J. - Sillanpaa, M. - Ornelas-Soto, N.: Removal of pharmaceutically active compounds (PhACs) and bacteria inactivation from urban wastewatereffluents by UVA-LED photocatalysis with Gd³⁺ doped BiVO₄. In: Journal of Environmental Chemical Engineering, Vol. 8, No. 6, 2020, Art. No. 104540 - SCOPUS

[o1] 2020 Orimolade, B.O. - Arotiba, O.A.: Bismuth vanadate in photoelectrocatalytic water treatment systems for the degradation of organics: A review on recent trends. In: Journal of Electroanalytical Chemistry, Vol. 878, 2020, Art. No.114724 - SCOPUS

[o1] 2020 Pu, S. - Yang, Z. - Tang, J. - Ma, H. - Xue, S. - Bai, Y.: Plasmonic silver/silver oxide nanoparticles anchored bismuth vanadate as a novel visible-light ternary photocatalyst for degrading pharmaceutical micropollutants. In: Journal of Environmental Sciences (China), Vol. 96, 2020, s. 21-32 - SCOPUS

[o1] 2020 Sanchez, O.A. - Rodriguez, J.L. - Barrera-Andrade, J.M. - Borja-Urby, R. - Valenzuela, M.A.: High performance of Ag/BiVO₄ photocatalyst for 2,4-Dichlorophenoxyacetic acid degradation under visible light. In: Applied Catalysis A:General, Vol. 600, 2020, Art. No. 117625 - SCOPUS

[o1] 2020 Rodrigues, B.S. - Branco, C.M. - Corio, P. - Souza, J.S.: Controlling Bismuth Vanadate Morphology and Crystalline Structure through Optimization of Microwave-Assisted Synthesis Conditions. In: Crystal Growth and Design, Vol. 20, No.6, 2020, s. 3673-3685 - SCOPUS

[o1] 2020 Bondarchuk, A.N. - Corrales-Mendoza, I. - Aguilar-Martinez, J.A. - Tomas, S.A. - Gomez-Caicerros, D.A. - Hernandez-Mendez, A. - Marken, F.: A BiVO₄ photoanode grown on porous and conductive SnO₂ ceramics for water splitting driven by solar energy. In: Ceramics International, Vol. 46, No. 7, 2020, s. 9040-9049 - SCOPUS

[o1] 2020 Yu, Q. - Zhang, F. - Li, G.: Structure, morphology and photocatalytic performance of BiVO₄ nanoislands covered with ITO thin film. In: Journal of Materials Science: Materials in Electronics, Vol. 31, No. 9, 2020, s. 7035-7043 -SCOPUS

[o1] 2020 Zhang, Y. - Li, G.: Recent Advances of Epitaxial BiVO₄ Thin Film: Preparation and Physical and Photoelectrochemical Properties. In: Brazilian Journal of Physics, Vol. 50, No. 2, 2020, s. 185-191 - SCOPUS

ADC13 Petrisková, Patrícia [UKOPRCAG] (35%) - Monfort, Olivier [UKOPRCAG] (20%) - Satrapinsky, Leonid [UKOMFKEF] (5%) - Dobročka, Edmund (5%) - Plecenik, Tomáš [UKOMFKEF] (5%) - Plesch, Gustáv [UKOPRCAG] (5%) - Papšík, Roman (5%) - Bermejo, Raúl (5%) - Lenčేశ, Zoltán (15%): Preparation and photocatalytic activity of TiO₂ nanotube arrays prepared on transparent spinel substrate

Lit.: 62 záz.

In: Ceramics International. - Roč. 47, č. 9 (2021), s. 12970-12980. - ISSN (print) 0272-8842

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2020=4.527

Kvartil Q:

wos-jcr -- Q1 [Materials science, ceramics] -- 2020

ADC14 Sciscenko, Ivan (45%) - Arques, Antonio (5%) - Varga, Zsuzsanna (5%) - Bouchonnet, Stephane (5%) - Monfort, Olivier [UKOPRCAG] (20%) - Brigante, Marcello (10%) - Mailhot, Gilles (10%): Significant role of iron on the fate and photodegradation of enrofloxacin

Lit.: 50 zázň.

In: Chemosphere. - Roč. 270 (2021), s. [1-9], art. no. 29791. - ISSN (print) 0045-6535

Registrované v: scopus

Registrované v: wos

Indikátor časopisu:

IF (JCR) 2020=7,086

Kvartil Q:

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

ADC15 Sfaelou, Stavroula (20%) - Pop, Lucian-Cristian (20%) - Monfort, Olivier [UKOPRCAG] (20%) - Dracopoulos, Vassilios (20%) - Lianos, Panagiotis (20%): Mesoporous WO₃ photoanodes for hydrogen production by water splitting and PhotoFuelCell operation

Lit.: 25 zázň., 7 obr.

In: International Journal of Hydrogen Energy. - Vol. 41, No. 14 (2016), s. 5902-5907. - ISSN 0360-3199

Registrované v: wos

Registrované v: scopus

Indikátor časopisu:

IF (JCR) 2016=3,582

Kvartil Q:

wos-jcr -- Q2 [chemistry, physical] ; Q1 [electrochemistry] ; Q2 [energy and fuels] -- 2016

Ohlasy (26):

[o1] 2016 Wan, L. - Zhang, J. - Chen, Y. - Zhong, C. - Hu, W. - Deng, Y.: International Journal of Hydrogen Energy, Vol. 41, No. 45, 2016, s. 20515-20522 - SCI ; SCOPUS

[o1] 2017 Zhao, K. - Zeng, Q. - Bai, J. - Li, J. - Xia, L. - Chen, S. - Zhou, B.: Water Research, Vol. 108, January, 2017, s. 293-300 - SCI ; SCOPUS

[o1] 2017 Kawai, Y. - Nagai, K. - Abe, T.: rsc Advances, Vol. 7, No. 55, 2017, s. 34694-34698 - SCI

[o1] 2017 Dom, R. - Baby, L.R. - Kim, H.G. - Borse, P.H.: International Journal of Hydrogen Energy, Vol. 42, No. 9, 2017, s. 5758-5767 - SCI

[o1] 2017 Li, D. - Chandra, D. - Takeuchi, R. - Togashi, T. - Kurihara, M. - Saito, K. - Yui, T. - Yagi, M.: Chemistry-A European Journal, Vol. 23, No. 27, 2017, s. 6596-6604 - SCI

[o1] 2017 Nanda, S. - Rana, R. - Zheng, Y. - Kozinski, J.A. - Dalai, A.K.: Sustainable Energy & Fuels, Vol. 1, No. 6, 2017, s. 1232-1245 - SCI

[o1] 2017 Yu, S.Q. - Ling, Y.H. - Zhang, J. - Qin, F. - Zhang, Z.J.: International Journal of Hydrogen Energy, Vol. 42, No. 32, 2017, s. 20879-20887 - SCI

[o1] 2017 Liu, X.H. - Du, F. - Chen, Q.Y. - Wang, Y.H.: Electrochimica Acta, Vol. 245, August, 2017, s. 371-377 - SCI

[o1] 2018 Kalanur, S.S. - Duy, L.T. - Seo, H.: Topics in Catalysis, Vol. 61, No. 9-11, 2018, s. 1043-1076 - SCI

[o1] 2018 Lee, J. - Kim, S.K. - Sohn, Y.: Journal of Industrial and Engineering Chemistry, Vol. 62, June, 2018, s. 362-374 - SCI

[o1] 2018 Diaz-Garcia, A.K. - Gomez, R.: Journal of Photochemistry and Photobiology A-Chemistry, Vol. 366, November, 2018, s. 65-71 - SCI

[o1] 2018 Chandra, D. - Saito, K. - Yui, T. - Yagi, M.: ACS Sustainable Chemistry & Engineering, Vol. 6, No. 12, 2018, s. 16838-16846 - SCI

[o1] 2018 Zhang, Y. - Wang, J.M. - Abudukeremu, H. - Nizamidin, P. - Abliz, S. - Yimit, A.: Analytical Sciences, Vol. 34, No. 12, 2018, s. 1385-1391 - SCI

[o1] 2018 Ferrari, V.C. - Dupim, I.S. - Sousa, V. - Souza, F.L.: Ceramics International, Vol. 44, No. 18, 2018, s. 22983-22990 - SCI

[o1] 2019 Fodor, L. - Solymosi, B. - Horvath, O.: Journal of Nanoscience and Nanotechnology, Vol. 19, No. 1, 2019, s. 509-515 - SCI

- [o1] 2019 Rasouli, F. - Rouhollahi, A. - Ghahramanifard, F.: Materials Science in Semiconductor Processing, Vol. 93, April, 2019, s. 371-378 - SCI
- [o1] 2019 Zhang, Y.P. - Hao, X.Q. - Ma, X.L. - Liu, H. - Jin, Z.L.: International Journal of Hydrogen Energy, Vol. 44, No. 26, 2019, s. 13232-13241 - SCI
- [o1] 2019 Rodriguez-Gutierrez, I. - Djatoubai, E. - Rodriguez-Perez, M. - Su, J.Z. - Rodriguez-Gattorno, G. - Vayssieres, L. - Oskam, G.: Electrochimica Acta, Vol. 308, June, 2019, s. 317-327 - SCI
- [o1] 2019 Ren, J. - Liu, Y.L. - Feng, L. - Liu, C.W.: Canadian Journal of Chemical Engineering, Vol. 97, No. 12, 2019, s. 3002-3011 - SCI
- [o1] 2019 Sethi, Y.A. - Kulkarni, A.K. - Khore, S.K. - Panmand, R.P. - Kanade, S.C. - Gosavi, S.W. - Kulkarni, M.V. - Kale, B.B.: rsc Advances, Vol. 9, No. 49, 2019, s. 28525-28533 - SCI
- [o1] 2019 Chandra, D. - Li, D. - Sato, T. - Tanahashi, Y. - Togashi, T. - Ishizaki, M. - Kurihara, M. - Mohamed, E.A. - Tsubonouchi, Y. - Zahran, Z.N. - Saito, K. - Yui, T. - Yagi, M.: ACS Sustainable Chemistry & Engineering, Vol. 7, No. 21, 2019, s. 17896-17906 - SCI
- [o1] 2019 Devarayapalli, K.C. - Prabhakar Vattikuti, S.V. - Madhukar Sreekanth, T.V. - Chidanandha Nagajyothi, P. - Shim, J.: ChemistrySelect, Vol. 4, No. 45, 2019, s. 13250-13258 - SCOPUS
- [o1] 2019 Cotet, L.C. - Fort, C.I. - Pop, L.C. - Baia, M. - Baia, L.: Insights into graphene-based materials as counter electrodes for dye-sensitized solar cells. In: Dye-Sensitized Solar Cells: Mathematical Modelling, and Materials Design and Optimization. Amsterdam : Elsevier, 2019, s. 341-396 - SCOPUS
- [o1] 2020 Jin, Z. - Zhang, Y.: Efficient Photocatalytic Hydrogen Production Achieved by WO₃ Coupled with NiP₂ Over ZIF-8. In: Catalysis Surveys from Asia, Vol. 24, No. 1, 2020, s. 59-69 - SCOPUS
- [o1] 2020 Peleyeju, G.M. - Umukoro, E.H. - Babalola, J.O. - Arotiba, O.A.: Solar-Light-Responsive Titanium-Sheet-Based Carbon Nanoparticles/B-BiVO₄/WO₃ Photoanode for the Photoelectrocatalytic Degradation of Orange II Dye Water Pollutant. In: ACS Omega, Vol. 5, No. 10, 2020, s. 4743-4750 - SCOPUS
- [o1] 2020 Fernandez-Climent, R. - Gimenez, S. - Garcia-Tecedor, M.: The role of oxygen vacancies in water splitting photoanodes. In: Sustainable Energy and Fuels, Vol. 4, No. 12, 2020, s. 5916-5926 - SCOPUS

ADC16 Tao, Yufang (50%) - Monfort, Olivier [UKOPRCAG] (30%) - Brigante, Marcello (10%) - Zhang, Hui (5%) - Maillhot, Gilles (5%): Phenanthrene decomposition in soil washing effluents using UVB activation of hydrogen peroxide and peroxydisulfate
Lit.: 60 zázň.

In: Chemosphere. - Roč. 263 (2021), s. [1-9], art. no. 27996. - ISSN (print) 0045-6535

Registrované v: scopus

Registrované v: vos

Indikátor časopisu:

IF (JCR) 2020=7,086

Kvartil Q:

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

ADC17 Thirunavukkarasu, Guru Karthikeyan [UKOPRCAG] (33%) - Monfort, Olivier [UKOPRCAG] (10%) - Motola, Martin [UKOPRCAG] (10%) - Motlochová, Monika (10%) - Gregor, Maroš [UKOMFKEF] (5%) - Roch, Tomáš [UKOMFKEF] (5%) - Čaplovičová, Mária (5%) - Lavrikova, Aleksandra [UKOMFKAFZM] (3%) - Hensel, Karol [UKOMFKAFZM] (3%) - Brezová, Vlasta (3%) - Jerigová, Monika [UKOPRCFZ] (3%) - Šubrt, Jan (5%) - Plesch, Gustáv [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 zázň.

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

URL: <https://pubs.rsc.org/en/content/articlelanding/2021/nj/d0nj05976e#!divAbstract>

Registrované v: vos

Registrované v: scopus

Indikátor časopisu:

IF (JCR) 2020=3.591

Kvartil Q:

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

ADC18 Usman, Muhammad (40%) - Monfort, Olivier [UKOPRCAG] (40%) - Haderlein, Stefan (10%) - Hanna, Khalil (10%): Enhancement of Pentachlorophenol Removal in a Historically Contaminated Soil by Adding Ascorbic Acid to H₂O₂/Magnetite System [elektronický dokument]

Lit.: 32 záz.

In: Catalysts [elektronický dokument]. - Roč. 11, č. 3 (2021), s. [1-13], art. no. 331 [online]. - ISSN (print) 2073-4344

Registrované v: scopus

Registrované v: vos

Indikátor časopisu:

IF (JCR) 2020=4.146

Kvartil Q:

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

ADC19 Wu, Yanlin (50%) - Monfort, Olivier [UKOPRCAG] (20%) - Dong, Wenbo (10%) - Brigante, Marcello (10%) - Mailhot, Gilles (10%): Enhancement of iron-mediated activation of persulfate using catechin: From generation of reactive species to atenolol degradation in water

Lit.: 30 záz.

In: Science of the Total Environment. - č. 697 (2019), s. [1-6], Art. no. 134188. - ISSN (print) 0048-9697

Registrované v: scopus

Registrované v: vos

Indikátor časopisu:

IF (JCR) 2019=6,551

Kvartil Q:

wos-jcr -- Q1 [Environmental sciences] -- 2019

Ohlasy (1):

[o1] 2020 Miao, D. - Zhao, S. - Zhu, K. - Zhang, P. - Wang, T. - Jia, H. - Sun, H.: Activation of persulfate and removal of ethyl-parathion from soil: Effect of microwave irradiation. In: Chemosphere, Vol. 253, 2020, Art. No. 126679 - SCOPUS

ADC20 Jia, Daqing (25%) - Li, Qinyhi (20%) - Luo, Tao (20%) - Monfort, Olivier [UKOPRCAG] (20%) - Mailhot, Gilles (5%) - Brigante, Marcello (5%) - Hanna, Khalil (5%): Impacts of environmental levels of hydrogen peroxide and oxyanions on the redoxactivity of MnO₂ particles

Lit.: 67 záz.

In: Environmental Science-Processes & Impacts. - Roč. 23, č. 9 (2021), s. 1351-1361. - ISSN (print) 2050-7887

Registrované v: scopus

Registrované v: vos

Indikátor časopisu:

IF (JCR) 2020=4.238

Kvartil Q:

wos-jcr -- Q1 [Chemistry, analytical] -- 2020

wos-jcr -- Q2 [Environmental sciences] -- 2020

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

ADM01 Monfort, Olivier [UKOPRCAG] (40%) - Roch, Tomáš [UKOMFKEF] (10%) - Gregor, Maroš (10%) - Satrapinsky, Leonid [UKOMFKEF] (10%) - Raptis, Dimitrios (10%) - Lianos, Panagiotis (10%) - Plesch, Gustáv [UKOPRCAG] (10%): Photooxidative properties of various BiVO₄/TiO₂ layered composite films and study of their photocatalytic mechanism in pollutant degradation

Lit.: 57 záz., 6 obr.

In: Journal of Environmental Chemical Engineering. - Vol. 5, No. 5 (2017), s. 5143-5149. - ISSN 2213-3437

Registrované v: scopus

Ohlasy (12):

- [o1] 2018 Choi, J. - Song, T. - Kwon, J. - Lee, S. - Han, H. - Roy, N. - Terashima, C. - Fujishima, A. - Paik, U. - Pitchaimuthu, S.: WO₃ nanofibrous backbone scaffolds for enhanced optical absorbance and charge transport in metal oxide (Fe₂O₃, BiVO₄) semiconductor photoanodes towards solar fuel generation. In: Applied Surface Science, Vol. 447, July, 2018, s. 331-337 - SCI ; SCOPUS
- [o1] 2018 Su, X.X. - Wu, D.F.: Controllable synthesis of plate BiOBr loaded plate Bi₂O₂CO₃ with exposed 001 facets for ciprofloxacin photo-degradation. In: Journal of Industrial and Engineering Chemistry, Vol. 64, August, 2018, s. 256-265 -SCI ; SCOPUS
- [o1] 2018 Samsudin, M.F.R. - Sufian, S. - Hameed, B.H.: Epigrammatic progress and perspective on the photocatalytic properties of BiVO₄-based photocatalyst in photocatalytic water treatment technology: A review. In: Journal of Molecular Liquids, Vol. 268, October, 2018, s. 438-459 - SCI ; SCOPUS
- [o1] 2019 Dadigala, R. - Bandi, R. - Gangapuram, B.R. - Dasari, A. - Belay, H.H. - Guttena, V.: Journal of Environmental Chemical Engineering, Vol. 7, No. 1, 2019, Art. No. UNSP 102822 - SCI ; SCOPUS
- [o1] 2019 Abd El-Azim, H. - Seleman, M.M.E.S. - Saad, E.M.: Journal of Environmental Chemical Engineering, Vol. 7, No. 2, 2019, Art. No. UNSP 102915 - SCI ; SCOPUS
- [o1] 2019 Xu, J.J. - Wang, Y.K. - Niu, J.F. - Chen, M.D.: Facile construction of BiOBr/BiOOH p-n heterojunction photocatalysts with improved visible-light-driven photocatalytic performance. In: Separation and Purification Technology, Vol.225, October, 2019, s. 24-32 - SCI ; SCOPUS
- [o1] 2019 Wu, C.-H. - Kuo, C.-Y. - Dong, C.-D. - Chen, C.-W. - Lin, Y.-L. - Chen, W.-M.: Synthesis of Bi₂O₃/BiVO₄ heterojunction with enhanced photocatalytic activity via single-step hydrothermal method. In: Desalination and Water Treatment, Vol. 172, 2019, s. 417-427 - SCI ; SCOPUS
- [o1] 2020 Shi, Y. - Xu, J. - Su, J.: Optical, electrical and mechanical properties and applications of multicomponent composite films. In: Journal of Applied Optics, Vol. 41, No. 2, 2020, s. 405-420 - SCOPUS
- [o1] 2020 Nguyen, T.D. - Nguyen, V.-H. - Nanda, S. - Vo, D.-V.N. - Nguyen, V.H. - Van Tran, T. - Nong, L.X. - Nguyen, T.T. - Bach, L.-G. - Abdullah, B. - Hong, S.-S. - Van Nguyen, T.: BiVO₄ photocatalysis design and applications to oxygen production and degradation of organic compounds: a review. In: Environmental Chemistry Letters, Vol. 18, No. 6, 2020, s. 1779-1801 - SCI ; SCOPUS
- [o1] 2020 Poo-Arporn, Y. - Luengprasert, K. - Tonlublaol, S. - Loiha, S. - Ruangvittayanon, A. - Poo-Arporn, R.P.: The influence of calcination temperature on (photo)electrochemical property of TiO₂ prepared by the sol-gel method. In: IOP Conference Series: Materials Science and Engineering, Vol. 965, No. 1. Bristol : IOP Publishing, 2020, Art. No. 012005 - SCOPUS
- [o1] 2021 Liu, Y. - Xu, Y. - Zhong, D. - Yao, H. - Zeng, Y. - Zhong, N. - Luo, H.: BiVO₄@PDA/TiO₂/Ti photoanode with polydopamine as electron transfer mediator for efficient visible-light driven photocatalytic fuel cell. In: Colloids and Surfaces A: Physicochemical and Engineering Aspects, Vol. 612, 2021, Art. No. 125941 - SCI ; SCOPUS
- [o1] 2021 Wu, C.-H. - Dong, C.-D. - Chen, C.-W. - Lin, Y.-L. - Jhu, S.-R. - Lin, Y.-H.: Enhanced visible light photocatalysis of Bi₂O₃/BiVO₄ and Bi₂O₃/Ag₃VO₄ heterojunctions: effects of synthetic procedures. In: Desalination and Water Treatment, Vol. 209, 2021, s. 267-279 - SCI ; SCOPUS

AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

- AEC01 Monfort, Olivier [UKOPRCAG] (50%) - Dworniczek, Ewa (20%) - Plesch, Gustáv [UKOPRCAG] (30%): Photocatalytic and Antimicrobial Properties of Silver Phosphate, Hydroxyapatite and Their Composites
Lit.: 30 záz., 4 obr.
In: Electrically Active Materials for Medical Devices. - London : Imperial College Press, 2016. - S. 177-192. - ISBN 978-1-78326-986-0
Anonymné recenzné konanie zo strany vydavateľa [rec.]
- AEC02 Monfort, Olivier (60%) - Lianos, Panagiotis (20%) - Plesch, Gustáv [UKOPRCAG] (20%): Design of Bismuth Vanadate-Based Materials: New Advanced Photoanodes for Solar Hydrogen Generation
Lit.: 54 záz.
In: Photoelectrochemical Solar Cells. - Salem : John Wiley & Sons, 2018. - S. 219-249 [1,83 AH]. - ISBN 978-1-119-45993-4
Anonymné recenzné konanie zo strany vydavateľa [rec.]

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 Monfort, Olivier [UKOPRCAG] (40%) - Roch, Tomáš [UKOMFKEF] (10%) - Gregor, Maroš [UKOMFKEF] (10%) - Satrapinskyy, Leonid [UKOMFKEF] (10%) - Plecenik, Tomáš [UKOMFKEF] (10%) - Plecenik, Andrej [UKOMFKEF] (10%) - Plesch, Gustáv [UKOPRCAG] (10%): Formation of vanadium dioxide thin films prepared from aqueous sol-gel system
Rozšírená práca
Lit. 9 zázň., 4 obr.
In: Materials and Applications for Sensors and Transducers 3. - Dürnten : Trans Tech Publications, 2014. - S. 79-82. - ISSN 0252-1059. - ISBN 978-3-03835-051-4
Edícia: Key Engineering Materials ; Vol. 605
[IC-MAST 2013 : International Conference on Materials and Applications for Sensors and Transducers. 3rd, Prague, 13.-17.9.2013]
Registrované v: scopus
Ohlasy (1):
[o1] 2020 Acosta, D. - Magana, C. - Hernandez, F. - Chavez-Esquivel, G. - Eduardo Cortes-Cordova, D. - Huerta, L. - Uriel Valdes-Martinez, O.: Temperature effects on VO₂ thin films deposited by RF sputtering for the degradation by photocatalysis of methylene blue and naproxen. In: International Journal of Chemical Reactor Engineering, Vol. 18, No. 7, 2020, Art. No. 20190214 - SCI ; SCOPUS

P1 Pedagogický výstup publikačnej činnosti ako celok

P101 Monfort, Olivier [UKOPRCAG] (100% [4,69 AH]) : Introduction to photochemical processes for environmental purposes [elektronický dokument] : the case of vanadium-based oxides. - 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, 2022. - 74s. [4,69 AH] [online]
Lit.: 218 zázň.
ISBN 978-80-223-5380-9
Poznámka: vysokoškolská učebnica vydaná v domácom vydavateľstve, ekvivalent ACB

V3 Vedecký výstup publikačnej činnosti z časopisu

V301 Thirunavukkarasu, Guru Karthikeyan [UKOPRCAG] (20%) - Bacova, Jana (5%) - Monfort, Olivier [UKOPRCAG] (20%) - Dworniczek, Ewa (5%) - Paluch, Emil (3%) - Hanif, Muhammad Bilal [UKOPRCAG] (5%) - Rauf, Sajid (1%) - Motlochová, Monika (1%) - Čapek, Jan (2%) - Hensel, Karol [UKOMFKAFZM] (5%) - Plesch, Gustáv [UKOPRCAG] (5%) - Chodaczek, Grzegorz (3%) - Roušar, Tomáš (5%) - Motola, Martin [UKOPRCAG] (20%): Critical comparison of aerogel TiO₂ and P25 nanopowders: Cytotoxic properties, photocatalytic activity and photoinduced antimicrobial/ antibiofilm performance
Lit.: 76 zázň.
In: Applied Surface Science. - č. 579 (2022), s. [1-11], art. no. 152145. - ISSN (print) 0169-4332
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2020=6,707
Kvartil Q:
wos-jcr -- Q1 [Chemistry, physical] -- 2020
Poznámka: zahraničný karent, ekvivalent ADC

Štatistika kategórií (Záznamov spolu: 52):

ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách (1)

ADC Vedecké práce v zahraničných karentovaných časopisoch (20)

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

AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (2)

AFC Publikované príspevky na zahraničných vedeckých konferenciách (1)

AFD Publikované príspevky na domácich vedeckých konferenciách (9)

AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií (5)
AFH Abstrakty príspevkov z domácich vedeckých konferencií (3)
BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných) (1)
BFA Abstrakty odborných prác zo zahraničných podujatí (konferencie, ...) (7)
V3 Vedecký výstup publikačnej činnosti z časopisu (1)
P1 Pedagogický výstup publikačnej činnosti ako celok (1)

Štatistika ohlasov (232):

[o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (232)