

LISTĂ LUCRĂRILOR ȘTIINȚIFICE

Articole cotate ISI/ISI Proceeding

- [1] **Andreia MOLEA**, István BARABÁS, Ramona SUCIU, *Influence of TiO₂ Nano-particles Content on Physicochemical and Tribological Properties of Lubricant Oil*. In: N. Burnete and B. O. Varga (Eds): AMMA 2018, Proceedings of the 4th International Congress of Automotive and Transport Engineering (2018) 190-196, https://doi.org/10.1007/978-3-319-94409-8_23.
- [2] István BARABÁS, **Andreia MOLEA**, Ramona SUCIU, *Fuel Properties of Diesel-Ethanol- Tetrahydrofuran Blends: Experimental and Theoretical Approaches*. In: N. Burnete and B. O. Varga (Eds): AMMA 2018, Proceedings of the 4th International Congress of Automotive and Transport Engineering, (2018) 197-208, https://doi.org/10.1007/978-3-319-94409-8_24.
- [3] Violeta MERIE, **Andreia MOLEA**, Nicolae V. BURNETE, Bogdan NEAMȚU, Gavril NEGREA, *Structural and optical characterization of titanium nitride thin films deposited by megnetron sputtering*. Powder metallurgy and advanced materials RoPM&AM 2017, Materials Research Proceedings 8 (2018) 134-142, <http://dx.doi.org/10.21741/9781945291999-15>.
- [4] **Andreia MOLEA**, Paul VISUIAN, István BARABÁS, Ramona SUCIU, Nicolae V. BURNETE, *Key fuel properties and engine performances of diesel-ethanol blends, using tetrahydrofuran as surfactant additive*. CAR 2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, IOP Conference Series: Materials Science and Engineering 252 (2017) 012077, doi:10.1088/1757-899X/252/1/012077.
- [5] István BARABÁS, Adrian TODORUȚ, Nicolae CORDOȘ, **Andreia MOLEA**, *Current challenges in autonomous driving*. CAR2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, IOP Conference Series: Materials Science and Engineering 252 (2017) 012096, doi:10.1088/1757-899X/252/1/012096.

- [6] Florina RUSU, Violeta MERIE, Ioana PINTEA, **Andreia MOLEA**, *Adhesion analysis for chromium nitride thin films deposited by reactive magnetron sputtering*. 7th International Conference on Advanced Concepts in Mechanical Engineering ACME 2016, IOP Conference Series: Materials Science and Engineering 147(1) (2016) 012023, doi:10.1088/1757-899X/147/1/012023.
- [7]. George Liviu POPESCU, Nicolae FILIP, Violeta POPESCU, **Andreia MOLEA**, *The effect of using pyrolysis oils from polyethylene and diesel on the pollutant emissions from a single cylinder diesel engine*. Studia UBB Chemia 60(4) (2015) 273-288, <http://studia.ubbcluj.ro/download/pdf/955.pdf>
- [8]. **Andreia MOLEA**, Violeta POPESCU, Neil A. ROWSON, Ileana COJOCARU, Adrian DINESCU, Adriana DEHELEAN, Mihaela LAZAR. *The correlation of the physicochemical properties with the catalytic performance of Fe-doped titanium dioxide powders*. Industrial & Engineering Chemistry Research 54(30) (2015) 7346-7351; <http://dx.doi.org/10.1021/acs.iecr.5b00246>
- [9]. **Andreia MOLEA**, Violeta POPESCU, Neil A. Rowson, *A comparative study of the photo-catalytic performance of amorphous and nano-crystalline TiO₂*. Optoelectronics and Advanced Materials - Rapid Communications 9(3-4) (2015) 431-435, <http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2550&catid=89>
- [10]. Violeta POPESCU, **Andreia MOLEA**, Adrian DINESCU, Cornel RUSU-TRIȘCĂ, Mărioara MOLDOVAN, Goerge Liviu POPESCU. *Optical properties of PbS crystals obtained on glass substrate from solutions containing hydroxylamine hydrochloride in an ultrasonic baths*, Chalcogenide Letters 12(7) (2015) 363-373, http://www.chalcogen.ro/363_Popescu.pdf
- [11]. **Andreia MOLEA**, Violeta POPESCU, Neil A. ROWSON, Adrian M. DINESCU, *Influence of pH on the formulation of TiO₂ nano-crystalline powders with high photocatalytic activity*. Powder Technology 253 (2014) 22-28, <http://dx.doi.org/10.1016/j.powtec.2013.10.040>

- [12]. Doina PRODAN, Marioara MOLDOVAN, Cristina PREJMEREAN, Laura SILAGHI-DUMITRESCU, Stanca BOBOIA, Violeta POPESCU, Violeta PAȘCALAU, Andreia MOLEA, Diana LAZAR, Ioana PERHAIȚA. *Synthesis and characterization of an experimental Zn-hydroxyapatite powders with application in dentistry*, Bioceramics 25, Book Series: Key Engineering Materials 587 (2014) 43-51, www.scientific.net/KEM.587.43
- [13]. Doina PRODAN, Andreia MOLEA, Mărioara MOLDOVAN, Violeta POPESCU, Laura SILAGHI-DUMITRESCU, Cristina PREJMEREAN, Stanca BOBOIA, Codruța SAROSI. *Synthesis and characterization of the hydroxyapatite and TiO₂ doped hydroxyapatite powders*, Journal of Optoelectronics and Advanced Materials 16 (2014) 1300-1305, <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3589&catid=87>
- [14]. Andreia MOLEA, Violeta POPESCU, Neil A. ROWSON. *Effects of I-doping content on the structural, optical and photocatalytic activity of TiO₂ nanocrystalline powders*, Powder Technology 230 (2012) 203-211, <http://dx.doi.org/10.1016/j.powtec.2012.07.030>
- [15]. Andreia MOLEA, Violeta POPESCU, *The obtaining of titanium dioxide nanocrystalline powders*. Optoelectronics and Advanced Materials–Rapid Communications 5(3) (2011) 242–246, <http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=1489&catid=60>

Articole cotate BDI

- [1]. George Liviu POPESCU, Nicolae FILIP, Violeta POPESCU, Andreia MOLEA. *A comparison between the consumption of polyethylene pyrolysis oils and diesel to supply a generator powered by a single cylinder diesel engine*. International Journal of Engineering and Applied Sciences 2(8) (2015) 7-10; https://www.ijeas.org/download_data/IJEAS0208003.pdf
- [2]. Andreia MOLEA, Violeta POPESCU, George Liviu POPESCU, Emanuela CHIVER. *Study of sorption capacity and photocatalytic activity of titanium dioxide nanoparticles*,

Acta Technica Napocensis, Series Environmental Engineering and Sustainable Development Entrepreneurship 4(2) (2015) 13-24.

- [3]. **Andreia MOLEA**, Andreea SURCHEA, Violeta POPESCU. *Influence of adsorbents on removal of copper ions from wastewater using adsorption and ion exchange processes*, Acta Technica Napocensis, Series Environmental Engineering and Sustainable Development Entrepreneurship 4(1) (2015) 13-22.
- [4]. **Andreia MOLEA**, Violeta POPESCU. Mihaela Ligia UNGURESAN, *Mathematical modelling of photocatalytic activity of TiO₂ powders obtained by chemical precipitation*, Acta Technica Napocensis 55(2) (2012) 437-446.
- [5]. **Andreia MOLEA**, Violeta POPESCU. *The obtaining of titanium dioxide by sol-gel method*, Science and Engineering 10 (2010) 95-102.
- [6]. **Andreia MOLEA**, Violeta POPESCU. *Structural properties of titanium dioxide*, Science and Engineering 10 (2010) 89-94.
- [7]. **Andreia MOLEA**. *Morphological properties of titanium dioxide*, Science and Engineering 10 (2010) 75-80.

Lucrări prezentate la conferințe

- [1] Timea GHERMAN, Lucica STANULET, Anamaria ORZA, **Andreia MOLEA**, *Synthesis of biodegradable gelatin films plasticized by glycerol, applicable in controlled release*, XI-th International symposium Priorities of Chemistry for a Sustainable Development, Bucharest (2015).
- [2]. **Andreia MOLEA**, Violeta POPESCU, Neil A. ROWSON, Ileana COJOCARU, *Synthesis of Ag/AgCl-TiO₂ and chlorophyll-sensitized Ag/AgCl-TiO₂ composites powders with photocatalytic performance*, 9th International Conference on Materials Science & Engineering (BRAMAT), Braşov (2015).
- [3]. **Andreia MOLEA**, Violeta POPESCU, Neil A. ROWSON. *The obtaining of nanostructured nitrogen doped titanium dioxide powders in presence of triethanolamine*,

15th Conference on Environment and Mineral Processing, Ostrava, Czech Republic (2011)
273-280.

- [4]. **Andreia MOLEA**, Violeta POPESCU, Neil A. ROWSON. *Influence of pH and annealing temperature on structural, morphological and optical properties of titanium dioxide powders*, 18th International Symposium on Metastable, Amorphous and Nanostructured Materials - ISMANAM, Gijon, Spain (2011).
- [5]. **Andreia MOLEA**, Violeta POPESCU, Neil A. ROWSON. *Influence of synthesis parameters on titanium dioxide films properties obtained by chemical bath deposition method*, 18th International Symposium on Metastable, Amorphous and Nanostructured Materials - ISMANAM, Gijon, Spain (2011).
- [6]. **Andreia MOLEA**, Violeta POPESCU, Mihaela UNGUREȘAN, Neil A. ROWSON, *Preliminary studies on degradation of Methylene Blue under the solar radiation in presence of titanium dioxide suspensions*, Research Poster Conference, University of Birmingham, Graduate School, United Kingdom (2011).

Teză de doctorat

Andreia MOLEA: „Nanostructured materials with photocatalytic activity”, Coordonator Științific: Prof. Dr. Ing. Violeta POPESCU.

Îndrumător lucrări de laborator

- [1] Violeta POPESCU, Andreia MOLEA, George Liviu POPESCU, Corneliu RUSU-TRISCA, Ileana COJOCARU, “Reducerea poluării – Aplicații. Metode fizico-chimice de separare a poluanților”, Editura SITECH, Craiova, 2014.

Proiecte de cercetare

- [1] Proiect PN-III-P2-2.1-BG-2016-0204 – “Optimizarea procesului de obținere a unor chelați aminoacizi în vederea obținerii unor materiale cu noi aplicații” – membru în echipă;
- [2] Proiect 165/2012-PN-II-PT-PCCA-2011-3.2-1275 – “Noi generații de biomateriale pentru cosmetica dentară – COSMETICDENT” – membru în echipă;
- [3] Proiect C.I.5/1.2/2015 - „Elaborarea și Caracterizarea Structurală Tribomecanică și Optică a unor Filme Subțiri de Nituri pentru Aplicații MEMS – NitriMEMS” – membru în echipă;
- [4] Program „Parteneriat interuniversitar pentru excelență în inginerie - PARTING”, POSDRU/159/1.5/S/137516 – Proiect Postdoctoral „Materiale oxidice cu proprietăți fotocatalitice pe bază de dioxid de titan dopat cu metale și/sau sensibilizat cu coloranți naturali”, câștigat prin competiție.

Premii

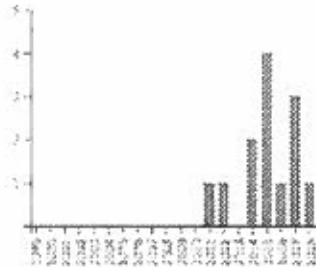
- [1] Premiarea Rezultatelor Cercetării – Articol, Identificator: PN-II-RU-PRECISI-2015-9.
- [2] Premiarea Rezultatelor Cercetării – Articol, Identificator: PN-II-RU-PRECISI-2014-8
- [3] Premiarea Rezultatelor Cercetării – Articol, Identificator: PN-II-RU-PRECISI-2012-6.

AUTHOR: (molea)

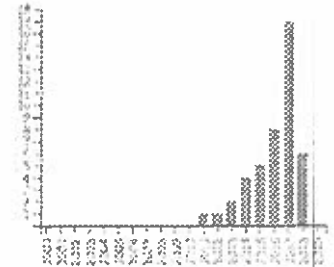
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Timespan=2010-2019. Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC.

Total Publications by Year



Sum of Times Cited by Year



Results found: 13
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	2015	2016	2017	2018	2019	Total	Average Citations per Year
1. Title: Influence of pH on the formulation of TiO ₂ nano-crystalline powders with high photocatalytic activity By: Molea, Andreia; Popescu, Violeta; Rowson, Neil A.; et al. Source: POWDER TECHNOLOGY Volume: 253 Pages: 22-28 Published: FEB 2014	3	5	8	3	0	20	3.33
2. Title: Effects of I-doping content on the structural, optical and photocatalytic activity of TiO ₂ nanocrystalline powders By: Molea, Andreia; Popescu, Violeta; Rowson, Neil Anthony Source: POWDER TECHNOLOGY Volume: 230 Pages: 203-211 Published: NOV 2012	1	2	4	1	0	11	1.38
3. Title: The obtaining of titanium dioxide nanocrystalline powders By: Molea, A.; Popescu, V. Source: OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 5 Issue: 3-4 Pages: 242-246 Published: MAR 2011	0	1	1	1	0	6	0.67
4. Title: Correlation of Physicochemical Properties with the Catalytic Performance of Fe-Doped Titanium Dioxide Powders By: Molea, Andreia; Popescu, Violeta; Rowson, Neil A.; et al. Source: INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 54 Issue: 30 Pages: 7346-7351 Published: AUG 5 2015	1	0	2	0	0	3	0.60
5. Title: Synthesis and characterization of an experimental Zn-hydroxyapatite powders with application in dentistry By: Prodan, Doina; Moldovan, Marioara; Prejmerean, Cristina; et al. Edited by: Antoniac, I; Cavalu, S; Traistaru, T Conference: 25th Symposium and Annual Meeting of the International Society-for-Ceramics-in-Medicine (ISCM) Location: Bucharest, ROMANIA Date: NOV 07-10, 2013 Sponsor(s): Int Soc Ceram Med Source: BIO CERAMICS, VOL 25 Book Series: Key Engineering Materials Volume: 587 Pages: 43-44 Published: 2014	0	0	1	0	0	2	0.33
6. Title: Synthesis and characterisation of titanium dioxide nanoparticles sensitised with natural chlorophyll dye extracted from Mentha leaves By: Molea, A.; Popescu, V.; Popescu, G. L.; et al. Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 19 Issue: 3-4 Pages: 272-277 Published: MAR-APR 2017	0	0	0	1	0	1	0.33
7. Title: A comparative study of the photo-catalytic performance of amorphous and nano-crystalline TiO ₂ By: Molea, A.; Popescu, V.; Rowson, N. A. Source: OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 9 Issue: 3-4 Pages: 431-435 Published: MAR-APR 2015	0	0	1	0	0	1	0.20

	2015	2016	2017	2018	2019	Total	Average Citations per Year
8. Title: Structural and optical characterization of titanium nitride thin films deposited by magnetron sputtering By: Meric, Violeta Valentina; Molea, Andreia; Burnete, Vlad Nicolae; et al. Edited by: Marinca, TF; Neamtu, BV; Popa, F Conference: 5th International Conference on Powder Metallurgy and Advanced Materials, RoPM&AM 2017 Location: Cluj Napoca, ROMANIA Date: SEP 17-20, 2017 Sponsor(s): Tech Univ Cluj Napoca Romania; Vienna Univ Tech Source: POWDER METALLURGY AND ADVANCED MATERIALS Book Series: Materials Research Proceedings Volume: 8 Pages: 134-142 Published: 2018	5	8	17	6	0	44	4.89
9. Title: Current challenges in autonomous driving By: Barabas, I.; Todorut, A.; Cordos, N.; et al. Conference: 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR) Location: Pitesti, ROMANIA Date: NOV 08-10, 2017 Sponsor(s): Soc Automot Engineers Romania; FISITA; Groupe Renault; AVL; Horiba; FEV; Asociația Constructorilor Automobile Romania; Registrul Auto Roman; Uniunea Națională Transportatorilor Rutieri Romania; Mag engn; Compact Ind; Nobel Automot; Haulotte Grp; CAD Works Source: INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 252 Article Number: UNSP 012096 Published: 2017	0	0	0	0	0	0	0.00
10. Title: Key fuel properties and engine performances of diesel ethanol blends, using tetrahydrofuran as surfactant additive By: Molea, A.; Visuian, P.; Barabas, I.; et al. Conference: 11th International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment (CAR) Location: Pitesti, ROMANIA Date: NOV 08-10, 2017 Sponsor(s): Soc Automot Engineers Romania; FISITA; Groupe Renault; AVL; Horiba; FEV; Asociația Constructorilor Automobile Romania; Registrul Auto Roman; Uniunea Națională Transportatorilor Rutieri Romania; Mag engn; Compact Ind; Nobel Automot; Haulotte Grp; CAD Works Source: INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING - MOBILITY ENGINEERING AND ENVIRONMENT (CAR2017) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 252 Article Number: UNSP 012077 Published: 2017	0	0	0	0	0	0	0.00

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Page 1 (Records 1 -- 10)

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