

# Dariusz Moszyński

## List of Publications by Year in descending order

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92  
papers

2,231  
citations

257101

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264894

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92  
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92  
docs citations

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times ranked

3060  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of anionic azo-dyes from aqueous solutions onto graphene oxide: Equilibrium, kinetic and thermodynamic studies. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 188-200.	5.0	331
2	Modification of Chitin with Kraft Lignin and Development of New Biosorbents for Removal of Cadmium(II) and Nickel(II) Ions. <i>Marine Drugs</i> , 2014, 12, 2245-2268.	2.2	124
3	Robust biodegradation of naproxen and diclofenac by laccase immobilized using electrospun nanofibers with enhanced stability and reusability. <i>Materials Science and Engineering C</i> , 2019, 103, 109789.	3.8	81
4	XPS and FTIR Studies of Polytetrafluoroethylene Thin Films Obtained by Physical Methods. <i>Polymers</i> , 2019, 11, 1629.	2.0	71
5	Chitin-Lignin Material as a Novel Matrix for Enzyme Immobilization. <i>Marine Drugs</i> , 2015, 13, 2424-2446.	2.2	70
6	Nitrogen-doped, metal-modified rutile titanium dioxide as photocatalysts for water remediation. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 310-318.	10.8	57
7	Double-Layer Model of the Fused Iron Catalyst for Ammonia Synthesis. <i>Langmuir</i> , 1999, 15, 5785-5789.	1.6	50
8	Hierarchical porous carbon materials from nanosized metal-organic complex for high-performance symmetrical supercapacitor. <i>Electrochimica Acta</i> , 2018, 269, 580-589.	2.6	47
9	Role of sulphur in carburization, carbide formation and metal dusting of iron. <i>Surface and Interface Analysis</i> , 2002, 34, 369-374.	0.8	46
10	Photocatalytic generation of useful hydrocarbons and hydrogen from acetic acid in the presence of lanthanide modified TiO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6529-6537.	3.8	45
11	The performance of multicomponent oxide systems based on TiO <sub>2</sub> , ZrO <sub>2</sub> and SiO <sub>2</sub> in the photocatalytic degradation of Rhodamine B: Mechanism and kinetic studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124272.	2.3	42
12	Surface characteristics of KOH-treated commercial carbons applied for CO <sub>2</sub> adsorption. <i>Adsorption Science and Technology</i> , 2018, 36, 478-492.	1.5	37
13	Palladium nanoparticles deposited on graphene and its electrochemical performance for glucose sensing. <i>Applied Surface Science</i> , 2015, 355, 587-592.	3.1	36
14	Lipase B from <i>Candida antarctica</i> Immobilized on a Silica-Lignin Matrix as a Stable and Reusable Biocatalytic System. <i>Catalysts</i> , 2017, 7, 14.	1.6	36
15	Poisoning of iron catalyst by sulfur. <i>Catalysis Today</i> , 2007, 124, 43-48.	2.2	35
16	Spongin-Based Scaffolds from <i>Hippospongia communis</i> Demosponge as an Effective Support for Lipase Immobilization. <i>Catalysts</i> , 2017, 7, 147.	1.6	35
17	On competitive uptake of SO <sub>2</sub> and CO <sub>2</sub> from air by porous carbon containing CaO and MgO. <i>Chemical Engineering Journal</i> , 2013, 226, 348-356.	6.6	34
18	DTA/TG, IR, EPR and XPS studies of some praseodymium(III) tungstates. <i>Materials Chemistry and Physics</i> , 2010, 124, 646-651.	2.0	33

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19	XPS study of cobalt-ceria catalysts for ammonia synthesis – The reduction process. <i>Vacuum</i> , 2018, 155, 434-438.	1.6	30
20	Characterization and properties of new color-tunable hybrid pigments based on layered double hydroxides (LDH) and 1,2-dihydroxyanthraquinone dye. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 427-438.	2.9	29
21	Iron nitriding and reduction of iron nitrides in nanocrystalline Fe–N system. <i>Materials Letters</i> , 2012, 78, 32-34.	1.3	28
22	Magnetite nanoparticles conjugated with lignin: A physicochemical and magnetic study. <i>Applied Surface Science</i> , 2017, 422, 94-103.	3.1	28
23	Low temperature removal of SO <sub>2</sub> traces from air by MgO-loaded porous carbons. <i>Chemical Engineering Journal</i> , 2012, 191, 147-153.	6.6	26
24	Carbon Spheres as CO <sub>2</sub> Sorbents. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3349.	1.3	26
25	Preparation of photoactive nitrogen-doped rutile. <i>Applied Surface Science</i> , 2013, 266, 410-419.	3.1	25
26	Studies on nitrogen modified TiO <sub>2</sub> photocatalyst prepared in different conditions. <i>Materials Research Bulletin</i> , 2010, 45, 1085-1091.	2.7	24
27	Surface and catalytic properties of potassium-modified cobalt molybdenum catalysts for ammonia synthesis. <i>Applied Surface Science</i> , 2010, 256, 5581-5584.	3.1	24
28	Simultaneous purification and functionalization of carbon nanotubes using chlorination. <i>Journal of Materials Research</i> , 2012, 27, 2368-2374.	1.2	24
29	Reactivity of oxidized copper surfaces in methanol oxidation. <i>Journal of Catalysis</i> , 2005, 235, 359-367.	3.1	23
30	Influence of crystallites' size on iron nitriding and reduction of iron nitrides in nanocrystalline Fe–N system. <i>Materials Chemistry and Physics</i> , 2013, 141, 674-679.	2.0	23
31	Tuning the catalytic performance of Co/Mg-La system for ammonia synthesis via the active phase precursor introduction method. <i>Applied Catalysis A: General</i> , 2020, 598, 117553.	2.2	23
32	A Comparison of Hydrogen Storage in Pt, Pd and Pt/Pd Alloys Loaded Disordered Mesoporous Hollow Carbon Spheres. <i>Nanomaterials</i> , 2018, 8, 639.	1.9	22
33	Different Approaches to Oxygen Functionalization of Multi-Walled Carbon Nanotubes and Their Effect on Mechanical and Thermal Properties of Polyamide 12 Based Composites. <i>Polymers</i> , 2020, 12, 308.	2.0	22
34	Suppressing Ni/Li disordering in LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> cathode material for Li-ion batteries by rare earth element doping. <i>Energy Reports</i> , 2022, 8, 3995-4005.	2.5	22
35	Catalyst-free activation of kraft lignin in air using hydrogen sulfate ionic liquids. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 431-437.	3.6	21
36	Influence of Preparation Procedure on Physicochemical and Antibacterial Properties of Titanate Nanotubes Modified with Silver. <i>Nanomaterials</i> , 2019, 9, 795.	1.9	21

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37	Preparation, characterization and charge transfer studies of nickel $\alpha$ -modified and nickel, nitrogen co-modified rutile titanium dioxide for photocatalytic application. <i>Chemical Engineering Journal</i> , 2014, 239, 149-157.	6.6	20
38	Effect of a Barium Promoter on the Stability and Activity of Carbon-Supported Cobalt Catalysts for Ammonia Synthesis. <i>ChemCatChem</i> , 2015, 7, 2836-2839.	1.8	20
39	Laccase from <i>Trametes versicolor</i> supported onto mesoporous $\text{Al}_2\text{O}_3$ : Stability tests and evaluations of catalytic activity. <i>Process Biochemistry</i> , 2020, 95, 71-80.	1.8	20
40	Effect of Cobalt on the Activity of $\text{CuO}/\text{CeO}_2$ Catalyst for the Selective Oxidation of CO. <i>Catalysis Letters</i> , 2010, 134, 196-203.	1.4	19
41	The transformation of $\text{Fe}^{2+}$ into $\text{Fe}^{3+}$ in nanocrystalline $\text{Fe-N}$ system: Influence of Gibbs-Thomson effect. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	19
42	Nitriding of Nanocrystalline Iron in the Atmospheres with Variable Nitriding Potential. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15440-15447.	1.5	19
43	Synthesis and antibacterial properties of $\text{Fe}_3\text{O}_4$ -Ag nanostructures. <i>Polish Journal of Chemical Technology</i> , 2016, 18, 110-116.	0.3	19
44	Synergistic Interaction of Cerium and Barium-New Insight into the Promotion Effect in Cobalt Systems for Ammonia Synthesis. <i>Catalysts</i> , 2020, 10, 658.	1.6	18
45	Highly Crystalline $\text{TiO}_2$ - $\text{MoO}_3$ Composite Materials Synthesized via a Template-Assisted Microwave Method for Electrochemical Application. <i>Crystals</i> , 2020, 10, 493.	1.0	18
46	Magnetic study of $\text{Fe}_2\text{O}_3/\text{ZnO}$ nanocomposites. <i>Physica B: Condensed Matter</i> , 2010, 405, 4054-4058.	1.3	17
47	Chlorination of Carbon Nanotubes Obtained on the Different Metal Catalysts. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-9.	1.5	17
48	Aqueous processable $\text{WO}_3$ nanocrystals with solution tunable localized surface plasmon resonance. <i>RSC Advances</i> , 2016, 6, 59050-59054.	1.7	17
49	$\text{ZnFe}_2\text{O}_4/\text{ZnO}$ nanoparticles obtained by coprecipitation route, XPS and TEM study. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1420-1423.	0.8	16
50	Association of the IL1RN Gene VNTR Polymorphism with Human Male Infertility. <i>PLoS ONE</i> , 2012, 7, e51899.	1.1	16
51	Facile synthesis N-doped hollow carbon spheres from spherical solid silica. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 203-208.	5.0	16
52	Ammonolysis of Cobalt Molybdenum Oxides - In Situ XRD Study. <i>Inorganic Chemistry</i> , 2018, 57, 9844-9850.	1.9	16
53	A comprehensive method for tetracycline removal using lanthanum-enriched titania-zirconia oxide system with tailored physicochemical properties. <i>Environmental Technology and Innovation</i> , 2021, 24, 102016.	3.0	16
54	Influence of potassium/oxygen layer on properties of iron surfaces. <i>Applied Catalysis A: General</i> , 1999, 182, 379-384.	2.2	15

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55	Kinetics of nanocrystalline iron nitriding. Polish Journal of Chemical Technology, 2010, 12, 38-43.	0.3	15
56	Surface enrichment phenomenon in the Ba-doped cobalt catalyst for ammonia synthesis. Vacuum, 2019, 168, 108831.	1.6	15
57	Thermal stability of catalyst for ammonia synthesis based on cobalt molybdenum nitrides. Chemical Papers, 2019, 73, 851-859.	1.0	15
58	Effect of sulphur on the formation of graphite at the surface of carburized iron. Surface and Interface Analysis, 2002, 34, 380-383.	0.8	14
59	Candida antarctica Lipase B Immobilized onto Chitin Conjugated with POSS <sup>®</sup> Compounds: Useful Tool for Rapeseed Oil Conversion. International Journal of Molecular Sciences, 2016, 17, 1581.	1.8	13
60	Assessment of the Suitability of the One-Step Hydrothermal Method for Preparation of Non-Covalently/Covalently-Bonded TiO <sub>2</sub> /Graphene-Based Hybrids. Nanomaterials, 2018, 8, 647.	1.9	12
61	The comparison of the different adsorption states of non-metals on the iron surface. Vacuum, 1999, 54, 3-7.	1.6	10
62	TiO <sub>2</sub> Supported on Quartz Wool for Photocatalytic Oxidation of Hydrogen Sulphide. Adsorption Science and Technology, 2014, 32, 765-773.	1.5	10
63	Carminic Acid Stabilized with Aluminum-Magnesium Hydroxycarbonate as New Colorant Reducing Flammability of Polymer Composites. Molecules, 2019, 24, 560.	1.7	10
64	Synthesis of Selected Mixed Oxide Materials with Tailored Photocatalytic Activity in the Degradation of Tetracycline. Materials, 2021, 14, 5361.	1.3	10
65	Controlled phase composition of mixed cobalt molybdenum nitrides. International Journal of Refractory Metals and Hard Materials, 2013, 41, 449-452.	1.7	9
66	Cobalt molybdenum nitrides co-promoted by chromium and potassium as catalysts for ammonia synthesis. Chemical Papers, 2018, 72, 425-430.	1.0	9
67	Chemical Structure of EVA Films Obtained by Pulsed Electron Beam and Pulse Laser Ablation. Polymers, 2019, 11, 1419.	2.0	9
68	Effect of copper salts on the characteristics and antibacterial activity of Cu-modified titanate nanotubes. Journal of Environmental Chemical Engineering, 2020, 8, 104550.	3.3	9
69	Surface Studies of UV Irradiated Polypropylene Films Modified with Mineral Fillers Designed as Piezoelectric Materials. Polymers, 2020, 12, 562.	2.0	9
70	Chlorine as a poison of the fused iron catalyst for ammonia synthesis. Applied Catalysis A: General, 1996, 134, 331-338.	2.2	8
71	Crystallization of TiO <sub>2</sub> -MoS <sub>2</sub> Hybrid Material under Hydrothermal Treatment and Its Electrochemical Performance. Materials, 2020, 13, 2706.	1.3	8
72	Influence of rGO and Preparation Method on the Physicochemical and Photocatalytic Properties of TiO <sub>2</sub> /Reduced Graphene Oxide Photocatalysts. Catalysts, 2021, 11, 1333.	1.6	8

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73	Magnetic properties of ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles. Open Physics, 2012, 10, .	0.8	7
74	Effect of treating method on the physicochemical properties of amine-functionalized carbon nanotubes. International Journal of Materials Research, 2016, 107, 35-43.	0.1	7
75	Nanocomposite Titaniaâ€“Carbon Spheres as CO <sub>2</sub> and CH <sub>4</sub> Sorbents. ACS Omega, 2020, 5, 1966-1973.	1.6	7
76	Surface properties of poly(lactic acid)/polyacrylate semi-interpenetrating networks â€“ Effect of UVC radiation. Polymer Degradation and Stability, 2016, 131, 71-81.	2.7	6
77	Understanding the DLC film â€“ Polyamide 12 substrate interrelation during pulsed laser deposition. Applied Surface Science, 2022, 576, 151872.	3.1	6
78	Structure and magnetic properties of chromium doped cobalt molybdenum nitrides. Journal of Solid State Chemistry, 2016, 241, 205-211.	1.4	5
79	Effect of substrate bias on the properties of DLC films created using a combined vacuum arc. Bulletin of Materials Science, 2021, 44, 1.	0.8	5
80	Thermal Stability of Potassium-Promoted Cobalt Molybdenum Nitride Catalysts for Ammonia Synthesis. Catalysts, 2022, 12, 100.	1.6	5
81	Lignin-based dual component additives as effective electrode material for energy management systems. International Journal of Biological Macromolecules, 2020, 165, 268-278.	3.6	4
82	An Active Anode Material Based on Titania and Zinc Oxide Hybrids Fabricated via a Hydrothermal Route: Comprehensive Physicochemical and Electrochemical Evaluations. Journal of the Electrochemical Society, 2018, 165, A3056-A3066.	1.3	3
83	Chromium-modified cobalt molybdenum nitrides as catalysts for ammonia synthesis. Open Chemistry, 2019, 17, 127-131.	1.0	3
84	Cobalt-molybdenum catalysts doped with cesium for ammonia synthesis Katalizatory kobaltowo-molibdenowe domieszkowane cezem do syntezy amoniaku. Przemysl Chemiczny, 2015, 1, 189-193.	0.0	3
85	Separation of the bulk and surface components in Auger electron spectroscopy. Applied Surface Science, 1998, 135, 59-64.	3.1	2
86	Electron-induced ammonia adsorption on iron. Journal of Electron Spectroscopy and Related Phenomena, 2003, 128, 215-221.	0.8	2
87	Thermal diffusion of potassium on the modified iron surface. Applied Surface Science, 2005, 252, 833-838.	3.1	1
88	Utilization of spent iron catalyst for ammonia synthesis. Polish Journal of Chemical Technology, 2007, 9, 108-113.	0.3	1
89	Selective Introduction of Hydroxyl Groups Onto the Surface of Carbon Nanotubes via Chlorination and Hydrolytic Dechlorination. Science of Advanced Materials, 2016, 8, 1208-1215.	0.1	1
90	Domieszkowane katalizatory kobaltowo-molibdenowe do syntezy amoniaku. Przemysl Chemiczny, 2020, 1, 48-52.	0.0	1

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91	The surface analysis method bridging the pressure gap. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 208, 277-281.	2.3	0
92	Nitriding and Denitriding of Nanocrystalline Iron System with Bimodal Crystallite Size Distribution. Materials, 2022, 15, 143.	1.3	0