

Agnieszka JastrzÄbska

List of Publications by Year in descending order

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81
papers

2,572
citations

186265

28
h-index

206112

48
g-index

83
all docs

83
docs citations

83
times ranked

2964
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in graphene family materials toxicity investigations. Journal of Nanoparticle Research, 2012, 14, 1320.	1.9	246
2	In vitro studies on cytotoxicity of delaminated Ti ₃ C ₂ MXene. Journal of Hazardous Materials, 2017, 339, 1-8.	12.4	216
3	Future Applications of MXenes in Biotechnology, Nanomedicine, and Sensors. Trends in Biotechnology, 2020, 38, 264-279.	9.3	161
4	2D Ti ₂ C (MXene) as a novel highly efficient and selective agent for photothermal therapy. Materials Science and Engineering C, 2019, 98, 874-886.	7.3	159
5	Surface interactions between 2D Ti ₃ C ₂ /Ti ₂ C MXenes and lysozyme. Applied Surface Science, 2019, 473, 409-418.	6.1	88
6	The Atomic Structure of Ti ₂ C and Ti ₃ C ₂ MXenes is Responsible for Their Antibacterial Activity Toward E. coli Bacteria. Journal of Materials Engineering and Performance, 2019, 28, 1272-1277.	2.5	85
7	Ti ₂ C MXene Modified with Ceramic Oxide and Noble Metal Nanoparticles: Synthesis, Morphostructural Properties, and High Photocatalytic Activity. Inorganic Chemistry, 2019, 58, 7602-7614.	4.0	77
8	A simple, low-cost and green method for controlling the cytotoxicity of MXenes. Materials Science and Engineering C, 2020, 111, 110790.	7.3	69
9	Novel 2D MBenes Synthesis, Structure, and Biotechnological Potential. Advanced Functional Materials, 2021, 31, 2103048.	14.9	67
10	Multilayered stable 2D nano-sheets of Ti ₂ N _{Tx} MXene: synthesis, characterization, and anticancer activity. Journal of Nanobiotechnology, 2019, 17, 114.	9.1	63
11	On tuning the cytotoxicity of Ti ₃ C ₂ (MXene) flakes to cancerous and benign cells by post-delamination surface modifications. 2D Materials, 2020, 7, 025018.	4.4	63
12	The ecotoxicity of graphene family materials: current status, knowledge gaps and future needs. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	59
13	Biological Activity and Bio-Sorption Properties of the Ti ₂ C Studied by Means of Zeta Potential and SEM. International Journal of Electrochemical Science, 2017, 12, 2159-2172.	1.3	58
14	Mechanical properties of graphene oxide reinforced alumina matrix composites. Ceramics International, 2017, 43, 6180-6186.	4.8	55
15	2D MBenes: A Novel Member in the Flatland. Advanced Materials, 2022, 34, e2108840.	21.0	54
16	Engineering of 2D Ti ₃ C ₂ MXene Surface Charge and its Influence on Biological Properties. Materials, 2020, 13, 2347.	2.9	49
17	Synthesis of the RGO/Al ₂ O ₃ core-shell nanocomposite flakes and characterization of their unique electrostatic properties using zeta potential measurements. Applied Surface Science, 2016, 362, 577-594.	6.1	41
18	Juggling Surface Charges of 2D Niobium Carbide MXenes for a Reactive Oxygen Species Scavenging and Effective Targeting of the Malignant Melanoma Cell Cycle into Programmed Cell Death. ACS Sustainable Chemistry and Engineering, 2020, 8, 7942-7951.	6.7	38

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19	Influence of bacteria adsorption on zeta potential of Al ₂ O ₃ and Al ₂ O ₃ /Ag nanoparticles in electrolyte and drinking water environment studied by means of zeta potential. <i>Surface and Coatings Technology</i> , 2015, 271, 225-233.	4.8	37
20	UV Light-Assisted Degradation of Methyl Orange, Methylene Blue, Phenol, Salicylic Acid, and Rhodamine B: Photolysis Versus Photocatalysis. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	37
21	Surface modification of graphene oxide nanoplatelets and its influence on mechanical properties of alumina matrix composites. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1587-1592.	5.7	35
22	Colloidal Properties and Stability of 2D Ti ₃ C ₂ and Ti ₂ C MXenes in Water. <i>International Journal of Electrochemical Science</i> , 2018, 13, 10837-10847.	1.3	34
23	Synthesis of RGO/TiO ₂ nanocomposite flakes and characterization of their unique electrostatic properties using zeta potential measurements. <i>Journal of Alloys and Compounds</i> , 2016, 679, 470-484.	5.5	31
24	Influence of modification of Ti ₃ C ₂ MXene with ceramic oxide and noble metal nanoparticles on its antimicrobial properties and ecotoxicity towards selected algae and higher plants. <i>RSC Advances</i> , 2019, 9, 4092-4105.	3.6	31
25	Silicon carbide matrix composites reinforced with two-dimensional titanium carbide – Manufacturing and properties. <i>Ceramics International</i> , 2019, 45, 6624-6631.	4.8	31
26	On the rapid in situ oxidation of two-dimensional V ₂ CTz MXene in culture cell media and their cytotoxicity. <i>Materials Science and Engineering C</i> , 2021, 119, 111431.	7.3	30
27	<i>In vitro</i> assessment of antibacterial properties and cytotoxicity of Al ₂ O ₃ –Ag nanopowders. <i>Advances in Applied Ceramics</i> , 2011, 110, 353-359.	1.1	29
28	New Reduced Graphene Oxide/Alumina (RGO/Al ₂ O ₃) Nanocomposite: Innovative Method of Synthesis and Characterization. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 522-528.	2.1	29
29	The Impact of Zeta Potential and Physicochemical Properties of TiO ₂ -Based Nanocomposites on Their Biological Activity. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 1157-1173.	2.1	28
30	The 10th anniversary of MXenes: Challenges and prospects for their surface modification toward future biotechnological applications. <i>Advanced Drug Delivery Reviews</i> , 2022, 182, 114099.	13.7	28
31	Microstructure and Mechanical Properties of Alumina Composites with Addition of Structurally Modified 2D Ti ₃ C ₂ (MXene) Phase. <i>Materials</i> , 2021, 14, 829.	2.9	27
32	Al ₂ O ₃ –Ag nanopowders: new method of synthesis, characterisation and biocidal activity. <i>Advances in Applied Ceramics</i> , 2011, 110, 108-113.	1.1	26
33	Controlling the Porosity and Biocidal Properties of the Chitosan-Hyaluronate Matrix Hydrogel Nanocomposites by the Addition of 2D Ti ₃ C ₂ Tx MXene. <i>Materials</i> , 2020, 13, 4587.	2.9	26
34	Synthesis, characterization and biophysical evaluation of the 2D Ti ₂ CTx MXene using 3D spheroid-type cultures. <i>Ceramics International</i> , 2021, 47, 22567-22577.	4.8	26
35	Filtration Materials Modified with 2D Nanocomposites – A New Perspective for Point-of-Use Water Treatment. <i>Materials</i> , 2021, 14, 182.	2.9	26
36	Surface-Related Features Responsible for Cytotoxic Behavior of MXenes Layered Materials Predicted with Machine Learning Approach. <i>Materials</i> , 2020, 13, 3083.	2.9	22

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37	Morphology, structure, and photoactivity of two types of graphene oxide/TiO ₂ composites. Chemical Papers, 2015, 69, .	2.2	18
38	Silver functionalized titania-silica xerogels: Preparation, morpho-structural and photocatalytic properties, kinetic modeling. Journal of Alloys and Compounds, 2015, 648, 890-902.	5.5	18
39	Controlled synthesis of graphene oxide/alumina nanocomposites using a new dry sol-gel method of synthesis. Chemical Papers, 2017, 71, 579-595.	2.2	18
40	Tunable Antibacterial Activity of a Polypropylene Fabric Coated with Bristling Ti ₃ C ₂ MXene Flakes Coupling the Nanoblade Effect with ROS Generation. ACS Applied Nano Materials, 2022, 5, 5373-5386.	5.0	18
41	Nano-titanium oxide doped with gold, silver, and palladium synthesis and structural characterization. Chemical Papers, 2014, 68, .	2.2	17
42	The studies of cytotoxicity and antibacterial activity of composites with ZnO-doped bioglass. International Journal of Applied Ceramic Technology, 2019, 16, 541-551.	2.1	17
43	Influence of MXene (Ti ₃ C ₂) Phase Addition on the Microstructure and Mechanical Properties of Silicon Nitride Ceramics. Materials, 2020, 13, 5221.	2.9	16
44	Examination of changes in the morphology of lignocellulosic fibers treated with e-beam irradiation. Radiation Physics and Chemistry, 2014, 94, 226-230.	2.8	15
45	Biosorption properties of RGO/Al ₂ O ₃ nanocomposite flakes modified with Ag, Au, and Pd for water purification. Journal of Alloys and Compounds, 2017, 724, 869-878.	5.5	14
46	Smart and Sustainable Nanotechnological Solutions in a Battle against COVID-19 and Beyond: A Critical Review. ACS Sustainable Chemistry and Engineering, 2021, 9, 601-622.	6.7	14
47	High catalytic performance of 2D Ti ₃ C ₂ T _x MXene in \pm -pinene isomerization to camphene. Applied Catalysis A: General, 2020, 604, 117765.	4.3	13
48	Synthesis and Bioactivity of Reduced Graphene Oxide/Alumina-Noble Metal Nanocomposite Flakes. International Journal of Applied Ceramic Technology, 2016, 13, 856-870.	2.1	12
49	The toxicity in vitro of titanium dioxide nanoparticles modified with noble metals on mammalian cells. International Journal of Applied Ceramic Technology, 2019, 16, 481-493.	2.1	12
50	Two-Dimensional Nanostructures in the World of Advanced Oxidation Processes. Catalysts, 2022, 12, 358.	3.5	12
51	Luminescent and structural properties of Yb ³⁺ -doped Al ₂ O ₃ nanopowders. Optical Materials, 2011, 33, 1487-1491.	3.6	11
52	The effect of the morphology of carbon used as a sintering aid on the sinterability of silicon carbide. Ceramics International, 2018, 44, 7020-7025.	4.8	11
53	The effect of receptor-polymer matrix compatibility on properties of PEO-based polymer electrolytes containing a supramolecular additive. Journal of Power Sources, 2007, 173, 755-764.	7.8	10
54	Terahertz time domain spectroscopy of graphene and MXene polymer composites. Journal of Applied Polymer Science, 2021, 138, 49962.	2.6	10

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55	A Review on Development of Ceramic-Graphene Based Nanohybrid Composite Systems in Biological Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 685014.	3.6	10
56	Synthesis and Bioactivity of RGO/TiO ₂ -Noble Metal Nanocomposite Flakes. <i>Journal of Nano Research</i> , 0, 47, 33-48.	0.8	9
57	Controlling the microstructure of lyophilized porous biocomposites by the addition of ZnO-doped bioglass. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 1107-1116.	2.1	9
58	Influence of Ti ₃ C ₂ T _x MXene and Surface-Modified Ti ₃ C ₂ T _x MXene Addition on Microstructure and Mechanical Properties of Silicon Carbide Composites Sintered via Spark Plasma Sintering Method. <i>Materials</i> , 2021, 14, 3558.	2.9	9
59	The effect of receptor-polymer matrix compatibility on electrochemical properties of PEO-based polymer electrolytes containing supramolecular additives. <i>Journal of Power Sources</i> , 2007, 173, 765-773.	7.8	8
60	New Non-Phyto- and Eco-Toxic Alumina-Stabilized Silver and Praseodymium Nanoparticles. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 908-916.	2.1	8
61	Comparative Assessment of Antimicrobial Efficiency of Ionic Silver, Silver Monoxide, and Metallic Silver Incorporated onto an Aluminum Oxide Nanopowder Carrier. <i>Journal of Nanoscience</i> , 2013, 2013, 1-12.	2.6	8
62	Praseodymium doped nanocrystals and nanocomposites for application in white light sources. <i>Optical Materials</i> , 2019, 95, 109247.	3.6	8
63	Non-toxic ZnO ₃ MXene surface-modified $\frac{C}{C_3}$ $\frac{MXene}{MXene}$ Bacterial adsorption with graphene family materials compared to nano-alumina. <i>Main Group Chemistry</i> , 2017, 16, 175-190.	3.5	7
64	Bacterial adsorption with graphene family materials compared to nano-alumina. <i>Main Group Chemistry</i> , 2017, 16, 175-190.	0.8	6
65	Investigation of MXenes Oxidation Process during SPS Method Annealing. <i>Materials</i> , 2021, 14, 6011.	2.9	6
66	New Alumina-Based Novel Ceramic Nanopigments: An Alternative to the Purple of Cassius. <i>International Journal of Applied Ceramic Technology</i> , 2014, 11, 738-744.	2.1	5
67	Comparative Assessment of Biocidal Activity of Different RGO/Ceramic Oxide-Ag Nanocomposites. <i>Journal of Nano Research</i> , 0, 47, 89-95.	0.8	5
68	Multifunctional carbon-supported bioactive hybrid nanocomposite (C/GO/NCP) bed for superior water decontamination from waterborne microorganisms. <i>RSC Advances</i> , 2021, 11, 18509-18518.	3.6	5
69	Biological and Corrosion Evaluation of In Situ Alloyed NiTi Fabricated through Laser Powder Bed Fusion (LPBF). <i>International Journal of Molecular Sciences</i> , 2021, 22, 13209.	4.1	5
70	Study of neutral species coordination by macrocyclic anion receptors using FTIR spectroscopy. <i>Electrochimica Acta</i> , 2007, 53, 1541-1547.	5.2	4
71	Study of the Properties of Al ₂ O ₃ -Ag Nanopowders Produced by an Innovative Thermal Decomposition-Reduction and Silver Nitrate Reduction Methods. <i>Key Engineering Materials</i> , 0, 478, 13-18.	0.4	4
72	Challenges and opportunities in tailoring MAX phases as a starting materials for MXenes development. <i>Materials Technology</i> , 2022, 37, 1639-1650.	3.0	4

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73	Influence of Al ₂ O ₃ /Pr Nanoparticles on Soil, Air and Water Microorganisms. <i>Advanced Structured Materials</i> , 2013, , 1-8.	0.5	4
74	Fabrication and Characterization of a Composite Ni-SDC Fuel Cell Cathode Reinforced by Ni Foam. <i>Materials</i> , 2022, 15, 4891.	2.9	3
75	The competitive interactions between the anion-receptor, anions and neutral solvent species. <i>Journal of Power Sources</i> , 2009, 194, 58-65.	7.8	2
76	Synthesis and characterization of RE ₃₊ :Al ₂ O ₃ nanopowders for application in the polymer-based composite light sources. , 2012, , .		1
77	Synthesis and characterization of polymer composite base on RE ³⁺ :Al ₂ O ₃ nanopowders doped by rare earth metals for application in optoelectronics. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
78	Enzyme Substrates Protective Encapsulation within Polymeric Microspheres. <i>American Journal of Analytical Chemistry</i> , 2013, 04, 432-441.	0.9	1
79	Modelling and Characterisation of Residual Stress of SiC-Ti ₃ C ₂ T _x MXene Composites Sintered via Spark Plasma Sintering Method. <i>Materials</i> , 2022, 15, 1175.	2.9	1
80	Online learning of windmill time series using Long Short-term Cognitive Networks. <i>Expert Systems With Applications</i> , 2022, 205, 117721.	7.6	1
81	Estimation of Ion Pairs Formation Constants of Lithium Salts in 1,2-dimethoxyethane and 1,4-dioxane Mixtures.. <i>ECS Transactions</i> , 2006, 2, 117-124.	0.5	0