

Alexandre Barras

List of Publications by Year in descending order

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133
papers

6,018
citations

53794

45
h-index

85541

71
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137
all docs

137
docs citations

137
times ranked

9010
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyurethane sponge functionalized with superhydrophobic nanodiamond particles for efficient oil/water separation. <i>Chemical Engineering Journal</i> , 2017, 307, 319-325.	12.7	237
2	Functional Carbon Quantum Dots as Medical Countermeasures to Human Coronavirus. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42964-42974.	8.0	231
3	Formulation and characterization of polyphenol-loaded lipid nanocapsules. <i>International Journal of Pharmaceutics</i> , 2009, 379, 270-277.	5.2	185
4	Reduced graphene oxide decorated with Co ₃ O ₄ nanoparticles (rGO-Co ₃ O ₄) nanocomposite: A reusable catalyst for highly efficient reduction of 4-nitrophenol, and Cr(VI) and dye removal from aqueous solutions. <i>Chemical Engineering Journal</i> , 2017, 322, 375-384.	12.7	160
5	Preparation of magnetic, superhydrophobic/superoleophilic polyurethane sponge: Separation of oil/water mixture and demulsification. <i>Chemical Engineering Journal</i> , 2020, 384, 123339.	12.7	144
6	Green chemistry approach for the synthesis of ZnO-carbon dots nanocomposites with good photocatalytic properties under visible light. <i>Journal of Colloid and Interface Science</i> , 2016, 465, 286-294.	9.4	137
7	Oil composition and characterisation of phenolic compounds of <i>Opuntia ficus-indica</i> seeds. <i>Food Chemistry</i> , 2013, 139, 796-803.	8.2	130
8	Eco-friendly synthesis of ZnO nanoparticles with different morphologies and their visible light photocatalytic performance for the degradation of Rhodamine B. <i>Ceramics International</i> , 2016, 42, 10259-10265.	4.8	116
9	Iron oxide magnetic nanoparticles with versatile surface functions based on dopamine anchors. <i>Nanoscale</i> , 2013, 5, 2692.	5.6	114
10	MoS ₂ /reduced graphene oxide as active hybrid material for the electrochemical detection of folic acid in human serum. <i>Biosensors and Bioelectronics</i> , 2016, 85, 807-813.	10.1	113
11	High Efficiency of Functional Carbon Nanodots as Entry Inhibitors of Herpes Simplex Virus Type 1. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9004-9013.	8.0	112
12	Investigation of the toxic effects of different polystyrene micro-and nanoplastics on microalgae <i>Chlorella vulgaris</i> by analysis of cell viability, pigment content, oxidative stress and ultrastructural changes. <i>Marine Pollution Bulletin</i> , 2020, 156, 111278.	5.0	112
13	Core-shell structured reduced graphene oxide wrapped magnetically separable rGO@CuZnO@Fe ₃ O ₄ microspheres as superior photocatalyst for CO ₂ reduction under visible light. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 654-665.	20.2	111
14	Nanostructures for the Inhibition of Viral Infections. <i>Molecules</i> , 2015, 20, 14051-14081.	3.8	104
15	Glycan-functionalized diamond nanoparticles as potent <i>E. coli</i> anti-adhesives. <i>Nanoscale</i> , 2013, 5, 2307.	5.6	102
16	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 347-354.	5.0	98
17	Direct Functionalization of Nanodiamond Particles Using Dopamine Derivatives. <i>Langmuir</i> , 2011, 27, 12451-12457.	3.5	94
18	Magnetic polyurethane sponge for efficient oil adsorption and separation of oil from oil-in-water emulsions. <i>Separation and Purification Technology</i> , 2020, 240, 116627.	7.9	93

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19	PMS activation using reduced graphene oxide under sonication: Efficient metal-free catalytic system for the degradation of rhodamine B, bisphenol A, and tetracycline. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 164-175.	8.2	89
20	NiFe layered double hydroxide electrodeposited on Ni foam coated with reduced graphene oxide for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 302, 1-9.	5.2	89
21	Reduced graphene oxide/polyethylenimine based immunosensor for the selective and sensitive electrochemical detection of uropathogenic <i>Escherichia coli</i> . <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 255-263.	7.8	86
22	Magnetically driven superhydrophobic/superoleophilic graphene-based polyurethane sponge for highly efficient oil/water separation and demulsification. <i>Separation and Purification Technology</i> , 2021, 274, 118931.	7.9	80
23	One-pot synthesis of gold nanoparticle/molybdenum cluster/graphene oxide nanocomposite and its photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013, 130-131, 270-276.	20.2	78
24	Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium. <i>Chemosphere</i> , 2020, 258, 127316.	8.2	77
25	Fast photocatalytic degradation of rhodamine B over [Mo ₆ Br ₈ (N ₃) ₆]2 ⁺ cluster units under sun light irradiation. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 1-8.	20.2	75
26	Reduced Graphene-Oxide-Embedded Polymeric Nanofiber Mats: An "On-Demand" Photothermally Triggered Antibiotic Release Platform. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41098-41106.	8.0	75
27	Magnetic reduced graphene oxide loaded hydrogels: Highly versatile and efficient adsorbents for dyes and selective Cr(VI) ions removal. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 360-369.	9.4	72
28	Cobalt phthalocyanine-supported reduced graphene oxide: A highly efficient catalyst for heterogeneous activation of peroxymonosulfate for rhodamine B and pentachlorophenol degradation. <i>Chemical Engineering Journal</i> , 2018, 336, 465-475.	12.7	72
29	CoO Promoted the Catalytic Activity of Nitrogen-Doped MoS ₂ Supported on Carbon Fibers for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31889-31898.	8.0	72
30	Functionalization of Diamond Nanoparticles Using "Click" Chemistry. <i>Langmuir</i> , 2010, 26, 13168-13172.	3.5	71
31	Phenylboronic-Acid-Modified Nanoparticles: Potential Antiviral Therapeutics. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12488-12498.	8.0	71
32	Preparation of silver nanoparticles/polydopamine functionalized polyacrylonitrile fiber paper and its catalytic activity for the reduction 4-nitrophenol. <i>Applied Surface Science</i> , 2017, 411, 163-169.	6.1	67
33	A facile preparation of CuS-BSA nanocomposite as enzyme mimics: Application for selective and sensitive sensing of Cr(VI) ions. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 253-262.	7.8	64
34	Transdermal skin patch based on reduced graphene oxide: A new approach for photothermal triggered permeation of ondansetron across porcine skin. <i>Journal of Controlled Release</i> , 2017, 245, 137-146.	9.9	63
35	Functionalization of Reduced Graphene Oxide via Thiol-Maleimide "Click" Chemistry: Facile Fabrication of Targeted Drug Delivery Vehicles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34194-34203.	8.0	63
36	Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8653-8675.	5.8	62

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37	Antibacterial Applications of Nanodiamonds. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 413.	2.6	59
38	Toxicity effect of graphene oxide on growth and photosynthetic pigment of the marine alga <i>Picochlorum</i> sp. during different growth stages. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4144-4152.	5.3	57
39	Approach for Plasmonic Based DNA Sensing: Amplification of the Wavelength Shift and Simultaneous Detection of the Plasmon Modes of Gold Nanostructures. <i>Analytical Chemistry</i> , 2013, 85, 3288-3296.	6.5	56
40	Thiol-yne Reaction on Boron-Doped Diamond Electrodes: Application for the Electrochemical Detection of DNA-DNA Hybridization Events. <i>Analytical Chemistry</i> , 2012, 84, 194-200.	6.5	55
41	Oxidative Burst-Dependent NETosis Is Implicated in the Resolution of Necrosis-Associated Sterile Inflammation. <i>Frontiers in Immunology</i> , 2016, 7, 557.	4.8	55
42	Copper oxide supported on three-dimensional ammonia-doped porous reduced graphene oxide prepared through electrophoretic deposition for non-enzymatic glucose sensing. <i>Electrochimica Acta</i> , 2017, 224, 346-354.	5.2	53
43	Inhibition of type 1 fimbriae-mediated <i>Escherichia coli</i> adhesion and biofilm formation by trimeric cluster thiomannosides conjugated to diamond nanoparticles. <i>Nanoscale</i> , 2015, 7, 2325-2335.	5.6	52
44	Co ₂ SnO ₄ nanoparticles as a high performance catalyst for oxidative degradation of rhodamine B dye and pentachlorophenol by activation of peroxymonosulfate. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6569-6578.	2.8	48
45	One-step immersion for fabrication of superhydrophobic/superoleophilic carbon felts with fire resistance: Fast separation and removal of oil from water. <i>Chemical Engineering Journal</i> , 2018, 331, 372-382.	12.7	48
46	Toxicity Effect of Silver Nanoparticles on Photosynthetic Pigment Content, Growth, ROS Production and Ultrastructural Changes of Microalgae <i>Chlorella vulgaris</i> . <i>Nanomaterials</i> , 2019, 9, 914.	4.1	48
47	Mesoporous silica nanoparticles in recent photodynamic therapy applications. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1651-1674.	2.9	47
48	Simultaneous photocatalytic Cr(VI) reduction and phenol degradation over copper sulphide-reduced graphene oxide nanocomposite under visible light irradiation: Performance and reaction mechanism. <i>Chemosphere</i> , 2021, 268, 128798.	8.2	47
49	Hypericin-loaded lipid nanocapsules for photodynamic cancer therapy in vitro. <i>Nanoscale</i> , 2013, 5, 10562.	5.6	45
50	Preparation of a Responsive Carbohydrate-Coated Biointerface Based on Graphene/Azido-Terminated Tetrathiafulvalene Nanohybrid Material. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5386-5393.	8.0	44
51	Antimicrobial activity of menthol modified nanodiamond particles. <i>Diamond and Related Materials</i> , 2015, 57, 2-8.	3.9	44
52	Fabrication of superhydrophobic/superoleophilic functionalized reduced graphene oxide/polydopamine/PFDT membrane for efficient oil/water separation. <i>Separation and Purification Technology</i> , 2020, 236, 116240.	7.9	42
53	Reduction of Cr(VI) to Cr(III) using silicon nanowire arrays under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2016, 304, 441-447.	12.4	41
54	Advancements on the molecular design of nanoantibiotics: current level of development and future challenges. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 349-369.	3.4	40

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55	Efficient reduction of Cr(VI) under visible light irradiation using CuS nanostructures. <i>Arabian Journal of Chemistry</i> , 2019, 12, 215-224.	4.9	40
56	Iron addition induced tunable band gap and tetravalent Fe ion in hydrothermally prepared SnO ₂ nanocrystals: Application in photocatalysis. <i>Materials Research Bulletin</i> , 2016, 83, 481-490.	5.2	37
57	Thiol-ene Click Reactions on Alkynyl-Dopamine-Modified Reduced Graphene Oxide. <i>Chemistry - A European Journal</i> , 2013, 19, 8673-8678.	3.3	36
58	Electrochemically stimulated drug release from flexible electrodes coated electrophoretically with doxorubicin loaded reduced graphene oxide. <i>Chemical Communications</i> , 2017, 53, 4022-4025.	4.1	36
59	Colorimetric sensing of dopamine in beef meat using copper sulfide encapsulated within bovine serum albumin functionalized with copper phosphate (CuS-BSA-Cu ₃ (PO ₄) ₂) nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 732-740.	9.4	35
60	Reduced Graphene Oxide Nanosheets Decorated with Au Nanoparticles as an Effective Bactericide: Investigation of Biocompatibility and Leakage of Sugars and Proteins. <i>ChemPlusChem</i> , 2014, 79, 1774-1784.	2.8	34
61	Ultrasml CuS-BSA-Cu ₃ (PO ₄) ₂ nanozyme for highly efficient colorimetric sensing of H ₂ O ₂ and glucose in contact lens care solutions and human serum. <i>Analytica Chimica Acta</i> , 2020, 1109, 78-89.	5.4	34
62	Insulin loaded iron magnetic nanoparticle-graphene oxide composites: synthesis, characterization and application for in vivo delivery of insulin. <i>RSC Advances</i> , 2014, 4, 865-875.	3.6	33
63	Selective Antimicrobial and Antibiofilm Disrupting Properties of Functionalized Diamond Nanoparticles Against <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Particle and Particle Systems Characterization</i> , 2015, 32, 822-830.	2.3	33
64	Colorimetric assay for the detection of dopamine using bismuth ferrite oxide (Bi ₂ Fe ₄ O ₉) nanoparticles as an efficient peroxidase-mimic nanozyme. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 384-395.	9.4	33
65	Comparison of photo- and Cu-catalyzed click-chemistries for the formation of carbohydrate SPR interfaces. <i>Analyst</i> , 2013, 138, 805-812.	3.5	32
66	Carbon nanowalls: a new versatile graphene based interface for the laser desorption/ionization-mass spectrometry detection of small compounds in real samples. <i>Nanoscale</i> , 2017, 9, 9701-9715.	5.6	32
67	Colorimetric detection of chromium (VI) ion using poly(N-phenylglycine) nanoparticles acting as a peroxidase mimetic catalyst. <i>Talanta</i> , 2021, 226, 122082.	5.5	32
68	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2771-2781.	5.8	31
69	Toward Multifunctional Clickable-Diamond Nanoparticles. <i>Langmuir</i> , 2015, 31, 3926-3933.	3.5	30
70	Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine levels in meat samples. <i>Talanta</i> , 2018, 178, 432-440.	5.5	30
71	Near-infrared light activatable hydrogels for metformin delivery. <i>Nanoscale</i> , 2019, 11, 15810-15820.	5.6	30
72	Aluminum oxide nanowires as safe and effective adjuvants for next-generation vaccines. <i>Materials Today</i> , 2019, 22, 58-66.	14.2	30

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73	Electrothermal patches driving the transdermal delivery of insulin. <i>Nanoscale Horizons</i> , 2020, 5, 663-670.	8.0	30
74	The impact of chemical engineering and technological advances on managing diabetes: present and future concepts. <i>Chemical Society Reviews</i> , 2021, 50, 2102-2146.	38.1	28
75	Unprecedented inhibition of glycosidase-catalyzed substrate hydrolysis by nanodiamond-grafted O-glycosides. <i>RSC Advances</i> , 2015, 5, 100568-100578.	3.6	27
76	An "on-demand" photothermal antibiotic release cryogel patch: evaluation of efficacy on an <i>in vivo</i> model for skin wound infection. <i>Biomaterials Science</i> , 2020, 8, 5911-5919.	5.4	27
77	Amplified plasmonic detection of DNA hybridization using doxorubicin-capped gold particles. <i>Analyst</i> , 2014, 139, 157-164.	3.5	26
78	Exploring Light-Sensitive Nanocarriers for Simultaneous Triggered Antibiotic Release and Disruption of Biofilms Upon Generation of Laser-Induced Vapor Nanobubbles. <i>Pharmaceutics</i> , 2019, 11, 201.	4.5	26
79	Boronic acid-modified lipid nanocapsules: a novel platform for the highly efficient inhibition of hepatitis C viral entry. <i>Nanoscale</i> , 2015, 7, 1392-1402.	5.6	25
80	Lipid nanocapsules functionalized with polyethyleneimine for plasmid DNA and drug co-delivery and cell imaging. <i>Nanoscale</i> , 2014, 6, 7379.	5.6	24
81	Selective isolation and eradication of <i>E. coli</i> associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8133-8142.	5.8	23
82	Characterization of graphene oxide reduced through chemical and biological processes. <i>Journal of Physics: Conference Series</i> , 2013, 433, 012001.	0.4	22
83	Encapsulation of a TRPM8 Agonist, WS12, in Lipid Nanocapsules Potentiates PC3 Prostate Cancer Cell Migration Inhibition through Channel Activation. <i>Scientific Reports</i> , 2019, 9, 7926.	3.3	22
84	Photothermally Active Cryogel Devices for Effective Release of Antimicrobial Peptides: On-Demand Treatment of Infections. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56805-56814.	8.0	22
85	Plasmon-Driven Electrochemical Methanol Oxidation on Gold Nanohole Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50426-50432.	8.0	21
86	Cobalt sulfide-reduced graphene oxide: An efficient catalyst for the degradation of rhodamine B and pentachlorophenol using peroxymonosulfate. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106018.	6.7	20
87	Production Rate and Reactivity of Singlet Oxygen (1O_2) Directly Photoactivated at 1270 nm in Lipid Nanocapsules Dispersed in Water. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2885-2893.	3.1	19
88	High-performance flexible hybrid supercapacitor based on NiAl layered double hydroxide as a positive electrode and nitrogen-doped reduced graphene oxide as a negative electrode. <i>Electrochimica Acta</i> , 2020, 354, 136664.	5.2	19
89	Silica Cross-linked Micelles Loading with Silicon Nanoparticles: Preparation and Characterization. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7042-7049.	8.0	18
90	Preparation and Characterization of Decyl-Terminated Silicon Nanoparticles Encapsulated in Lipid Nanocapsules. <i>Langmuir</i> , 2013, 29, 12688-12696.	3.5	17

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91	Affinity of Glycan-Modified Nanodiamonds towards Lectins and Uropathogenic <i>Escherichia Coli</i> . <i>ChemNanoMat</i> , 2016, 2, 307-314.	2.8	16
92	Graphene Oxide Nanosheets for Localized Hyperthermia-Physicochemical Characterization, Biocompatibility, and Induction of Tumor Cell Death. <i>Cells</i> , 2020, 9, 776.	4.1	16
93	Improved photodynamic effect through encapsulation of two photosensitizers in lipid nanocapsules. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5949-5963.	5.8	15
94	Enhanced visible light-triggered antibacterial activity of carbon quantum dots/polyurethane nanocomposites by gamma rays induced pre-treatment. <i>Radiation Physics and Chemistry</i> , 2021, 185, 109499.	2.8	15
95	Preparation of boron-doped diamond nanospikes on porous Ti substrate for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2020, 354, 136649.	5.2	14
96	Carbon quantum dots as a dual platform for the inhibition and light-based destruction of collagen fibers: implications for the treatment of eye floaters. <i>Nanoscale Horizons</i> , 2021, 6, 449-461.	8.0	14
97	Photothermal Activatable Mucoadhesive Fiber Mats for On-Demand Delivery of Insulin via Buccal and Corneal Mucosa. <i>ACS Applied Bio Materials</i> , 2022, 5, 771-778.	4.6	14
98	Adsorption-reduction of Cr(VI) onto unmodified and phytic acid-modified carob waste: Kinetic and isotherm modeling. <i>Chemosphere</i> , 2022, 297, 134188.	8.2	14
99	Minimal Chemical Modification of Reductive End of Dextran to Produce an Amphiphilic Polysaccharide Able to Incorporate onto Lipid Nanocapsules. <i>Bioconjugate Chemistry</i> , 2008, 19, 1491-1495.	3.6	13
100	Alkyl passivation and SiO ₂ encapsulation of silicon nanoparticles: preparation, surface modification and luminescence properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5261.	5.5	13
101	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6557-6565.	5.8	13
102	Microencapsulation of benzalkonium chloride enhanced its antibacterial and antibiofilm activities against <i>Listeria monocytogenes</i> and <i>Escherichia coli</i> . <i>Journal of Applied Microbiology</i> , 2021, 131, 1136-1146.	3.1	13
103	Enhanced electrocatalytic activity of PtRu/nitrogen and sulphur co-doped crumbled graphene in acid and alkaline media. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 154-163.	9.4	13
104	Short-term exposure to gold nanoparticle suspension impairs swimming behavior in a widespread calanoid copepod. <i>Environmental Pollution</i> , 2017, 228, 102-110.	7.5	12
105	Flower-Like Nitrogen-Codoped MoS ₂ @RGO Composites with Excellent Stability for Supercapacitors. <i>ChemElectroChem</i> , 2021, 8, 2903-2911.	3.4	12
106	Lipid nanocapsules containing the non-ionic surfactant Solutol HS15 inhibit the transport of calcium through hyperforin-activated channels in neuronal cells. <i>Neuropharmacology</i> , 2015, 99, 726-734.	4.1	11
107	Lipid nanocapsules for behavioural testing in aquatic toxicology: Time-response of <i>Eurytemora affinis</i> to environmental concentrations of PAHs and PCB. <i>Aquatic Toxicology</i> , 2016, 170, 310-322.	4.0	11
108	Enhanced Antibacterial Activity of CuS-BSA/Lysozyme under Near Infrared Light Irradiation. <i>Nanomaterials</i> , 2021, 11, 2156.	4.1	11

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109	Dopamine-functionalized cyclodextrins: modification of reduced graphene oxide based electrodes and sensing of folic acid in human serum. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5149-5157.	3.7	10
110	Interaction of Human α -1-Acid Glycoprotein (AGP) with Citrate-Stabilized Gold Nanoparticles: Formation of Unexpectedly Strong Binding Events. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5073-5083.	3.1	10
111	Enhanced electrocatalytic hydrogen evolution on a plasmonic electrode: the importance of the Ti/TiO ₂ adhesion layer. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13980-13986.	10.3	10
112	Magnetic MnFe ₂ O ₄ Core-shell nanoparticles coated with antibiotics for the ablation of pathogens. <i>Chemical Papers</i> , 2021, 75, 377-387.	2.2	10
113	Rapid Generation of Coronaviral Immunity Using Recombinant Peptide Modified Nanodiamonds. <i>Pathogens</i> , 2021, 10, 861.	2.8	10
114	Surface modification of carbon dots with tetraalkylammonium moieties for fine tuning their antibacterial activity. <i>Materials Science and Engineering C</i> , 2022, 134, 112697.	7.3	10
115	Drug delivery to the brain using colloidal carriers. <i>Progress in Brain Research</i> , 2009, 180, 2-17.	1.4	9
116	Anti-biofilm activity of dodecyltrimethylammonium chloride microcapsules against <i>Salmonella enterica</i> serovar <i>Enteritidis</i> and <i>Staphylococcus aureus</i> . <i>Biofouling</i> , 2021, 37, 49-60.	2.2	9
117	TRPM8 as an Anti-Tumoral Target in Prostate Cancer Growth and Metastasis Dissemination. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6672.	4.1	9
118	Aryne cycloaddition reaction as a facile and mild modification method for design of electrode materials for high-performance symmetric supercapacitor. <i>Electrochimica Acta</i> , 2021, 369, 137667.	5.2	8
119	The Potential of Developing Pan-Coronaviral Antibodies to Spike Peptides in Convalescent COVID-19 Patients. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2021, 69, 5.	2.3	8
120	Cathodic pre-polarization studies on the carbon felt/KOH interface: An efficient metal-free electrocatalyst for hydrogen generation. <i>Electrochimica Acta</i> , 2021, 375, 137981.	5.2	8
121	Water-Soluble Ruthenium (II) Complex Derived From Optically Pure Limonene and Its Microencapsulation Are Efficient Tools Against Bacterial Food Pathogen Biofilms: <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> , <i>Enterococcus faecalis</i> , and <i>Listeria monocytogenes</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 711326.	3.5	7
122	Photochemical reaction of vitamin C with silicon nanocrystals: polymerization, hydrolysis and photoluminescence. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5856.	5.5	6
123	A graphene/hemin hybrid material as an efficient green catalyst for stereoselective olefination of aldehydes. <i>RSC Advances</i> , 2015, 5, 100011-100017.	3.6	5
124	Lipid nanocapsules as a new delivery system in copepods: Toxicity studies and optical imaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 441-447.	5.0	4
125	Comparative Study on the Impact of Growth Conditions on the Physiology and the Virulence of <i>Pseudomonas aeruginosa</i> Biofilm and Planktonic Cells. <i>Journal of Food Protection</i> , 2019, 82, 1357-1363.	1.7	4
126	Interaction of 4 allotropic modifications of carbon nanoparticles with living tissues. <i>Ukrainian Biochemical Journal</i> , 2019, 91, 41-50.	0.5	4

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127	Phytic acid-doped poly-<i>N</i>-phenylglycine potato peels for removal of anionic dyes: investigation of adsorption parameters. <i>New Journal of Chemistry</i> , 2022, 46, 5111-5120.	2.8	3
128	Effective PDT/PTT dual-modal phototherapeutic killing of bacteria by using poly(N-phenylglycine) nanoparticles. <i>Mikrochimica Acta</i> , 2022, 189, 150.	5.0	3
129	pH-responsive phenylboronic acid-modified diamond particles: Switch in carbohydrate capture ability triggers modulation of physicochemical and lectin-recognition properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2124-2130.	1.8	2
130	Enhancing Colistin Activity against Colistin-Resistant <i>Escherichia coli</i> through Combination with Alginate Nanoparticles and Small Molecules. <i>Pharmaceuticals</i> , 2022, 15, 682.	3.8	2
131	Influence of graphene oxide on the toxicity of polystyrene nanoplastics to the marine microalgae <i>Picochlorum</i> sp.. <i>Environmental Science and Pollution Research</i> , 2022, 29, 75870-75882.	5.3	2
132	Enhanced Antibacterial Activity of Dermaseptin through Its Immobilization on Alginate Nanoparticles—Effects of Menthol and Lactic Acid on Its Potentialization. <i>Antibiotics</i> , 2022, 11, 787.	3.7	2
133	Aqueous medium-induced micropore formation in plasma polymerized polystyrene: an effective route to inhibit bacteria adhesion. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3674-3683.	5.8	1