

# Ali Aldalbahi

## List of Publications by Year in descending order

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212  
papers

7,071  
citations

44069

48  
h-index

82547

72  
g-index

217  
all docs

217  
docs citations

217  
times ranked

9311  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical detection of nucleic acids, proteins, small molecules and cells using a DNA-nanostructure-based universal biosensing platform. <i>Nature Protocols</i> , 2016, 11, 1244-1263.	12.0	320
2	Golden single-atomic-site platinum electrocatalysts. <i>Nature Materials</i> , 2018, 17, 1033-1039.	27.5	266
3	Fluorescent biosensors enabled by graphene and graphene oxide. <i>Biosensors and Bioelectronics</i> , 2017, 89, 96-106.	10.1	215
4	Yolk-shell nanostructured Fe <sub>3</sub> O <sub>4</sub> @C magnetic nanoparticles with enhanced peroxidase-like activity for label-free colorimetric detection of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Nanoscale</i> , 2017, 9, 4508-4515.	5.6	175
5	DNA Tetrahedral Nanostructure-Based Electrochemical miRNA Biosensor for Simultaneous Detection of Multiple miRNAs in Pancreatic Carcinoma. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24118-24125.	8.0	139
6	Electrospinning nanofiber scaffolds for soft and hard tissue regeneration. <i>Journal of Materials Science and Technology</i> , 2020, 59, 243-261.	10.7	135
7	Synthesis, characterization of curcumin based ecofriendly antimicrobial bio-adsorbent for the removal of phenol from aqueous medium. <i>Chemical Engineering Journal</i> , 2014, 254, 181-189.	12.7	126
8	Universal Fluorescence Biosensor Platform Based on Graphene Quantum Dots and Pyrene-Functionalized Molecular Beacons for Detection of MicroRNAs. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16152-16156.	8.0	126
9	An effective strategy to enhance mechanical, electrical, and electromagnetic shielding effectiveness of chlorinated polyethylene-carbon nanofiber nanocomposites. <i>Composites Part B: Engineering</i> , 2017, 109, 155-169.	12.0	123
10	PolyA-Mediated DNA Assembly on Gold Nanoparticles for Thermodynamically Favorable and Rapid Hybridization Analysis. <i>Analytical Chemistry</i> , 2016, 88, 4949-4954.	6.5	107
11	ZnO/MnO <sub>x</sub> Nanoflowers for High-Performance Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3697-3708.	6.7	106
12	A new approach for fabrications of SiC based photodetectors. <i>Scientific Reports</i> , 2016, 6, 23457.	3.3	102
13	Thermophoretic particle deposition in time-dependent flow of hybrid nanofluid over rotating and vertically upward/ downward moving disk. <i>Surfaces and Interfaces</i> , 2021, 22, 100864.	3.0	100
14	A biodegradable multifunctional nanofibrous membrane for periodontal tissue regeneration. <i>Acta Biomaterialia</i> , 2020, 108, 207-222.	8.3	96
15	Probing Cellular Molecules with PolyA-Based Engineered Aptamer Nanobeacon. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8014-8020.	8.0	95
16	A New Insight in Determining the Percolation Threshold of Electrical Conductivity for Extrinsicly Conducting Polymer Composites through Different Sigmoidal Models. <i>Polymers</i> , 2017, 9, 527.	4.5	87
17	A strategy to achieve enhanced electromagnetic interference shielding at low concentration with a new generation of conductive carbon black in a chlorinated polyethylene elastomeric matrix. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24591-24599.	2.8	85
18	Size-Dependent Regulation of Intracellular Trafficking of Polystyrene Nanoparticle-Based Drug-Delivery Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18619-18625.	8.0	84

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19	A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold. <i>Advanced Materials</i> , 2016, 28, 6860-6865.	21.0	79
20	Exploration of the antibacterial and wound healing potential of a PLGA/silk fibroin based electrospun membrane loaded with zinc oxide nanoparticles. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1452-1465.	5.8	78
21	Highly narrow nanogap-containing Au@Au core-shell SERS nanoparticles: size-dependent Raman enhancement and applications in cancer cell imaging. <i>Nanoscale</i> , 2016, 8, 2090-2096.	5.6	76
22	Methylene blue degradation under visible light of metallic nanoparticles scattered into graphene oxide using laser ablation technique in aqueous solutions. <i>Journal of Molecular Liquids</i> , 2020, 315, 113794.	4.9	74
23	Structural, morphological, opto-nonlinear-limiting studies on Dy:PbI <sub>2</sub> /FTO thin films derived facilely by spin coating technique for optoelectronic technology. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 130, 189-196.	4.0	72
24	Rapid microwave-assisted synthesis of Ag-doped PbS nanoparticles for optoelectronic applications. <i>Ceramics International</i> , 2019, 45, 21975-21985.	4.8	70
25	Supersonically Sprayed Washable, Wearable, Stretchable, Hydrophobic, and Antibacterial rGO/AgNW Fabric for Multifunctional Sensors and Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10013-10025.	8.0	70
26	Development of carboxymethyl cellulose-based hydrogel and nanosilver composite as antimicrobial agents for UTI pathogens. <i>Carbohydrate Polymers</i> , 2016, 138, 229-236.	10.2	69
27	Effect of sulfurization time on the properties of copper zinc tin sulfide thin films grown by electrochemical deposition. <i>Scientific Reports</i> , 2016, 6, 32431.	3.3	68
28	Effects of Technical Textiles and Synthetic Nanofibers on Environmental Pollution. <i>Polymers</i> , 2021, 13, 155.	4.5	67
29	Greener Synthesis of Zinc Oxide Nanoparticles: Characterization and Multifaceted Applications. <i>Molecules</i> , 2020, 25, 4198.	3.8	64
30	Hydroxyethyl cellulose/bacterial cellulose cryogel doped silver@titanium oxide nanoparticles: Antimicrobial activity and controlled release of Tebuconazole fungicide. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1010-1021.	7.5	63
31	Controlling the Interfacial Charge Polarization of MOF-Derived 0D-2D vdW Architectures as a Unique Strategy for Bifunctional Oxygen Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 3919-3929.	8.0	63
32	Effective adsorption of Coomassie brilliant blue dye using poly(phenylene diamine)grafted electrospun carbon nanofibers as a novel adsorbent. <i>Materials Chemistry and Physics</i> , 2019, 234, 133-145.	4.0	62
33	Poly-cytosine-mediated nanotags for SERS detection of Hg <sup>2+</sup> . <i>Nanoscale</i> , 2017, 9, 14184-14191.	5.6	61
34	Modified Electrospun Polymeric Nanofibers and Their Nanocomposites as Nanoadsorbents for Toxic Dye Removal from Contaminated Waters: A Review. <i>Polymers</i> , 2021, 13, 20.	4.5	59
35	One-step synthesis of trimetallic Pt-Pd-Ru nanodendrites as highly active electrocatalysts. <i>RSC Advances</i> , 2015, 5, 31147-31152.	3.6	58
36	High Operating Temperature and Low Power Consumption Boron Nitride Nanosheets Based Broadband UV Photodetector. <i>Scientific Reports</i> , 2017, 7, 42973.	3.3	58

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37	Determination of percolation threshold and electrical conductivity of polyvinylidene fluoride (PVDF)/short carbon fiber (SCF) composites: effect of SCF aspect ratio. <i>Polymer International</i> , 2017, 66, 573-582.	3.1	56
38	Facilely synthesized Cu:PbS nanoparticles and their structural, morphological, optical, dielectric and electrical studies for optoelectronic applications. <i>Materials Science in Semiconductor Processing</i> , 2019, 96, 16-23.	4.0	56
39	Dual Soft-Template System Based on Colloidal Chemistry for the Synthesis of Hollow Mesoporous Silica Nanoparticles. <i>Chemistry - A European Journal</i> , 2015, 21, 6375-6380.	3.3	55
40	Electrosprayed MnO <sub>2</sub> on ZnO nanorods with atomic layer deposited TiO <sub>2</sub> layer for photoelectrocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 271, 118928.	20.2	55
41	Supersonically sprayed Fe <sub>2</sub> O <sub>3</sub> /C/CNT composites for highly stable Li-ion battery anodes. <i>Chemical Engineering Journal</i> , 2020, 395, 125018.	12.7	55
42	Portable detection of clenbuterol using a smartphone-based electrochemical biosensor with electric field-driven acceleration. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 339-344.	3.8	54
43	Dynamic Modulation of DNA Hybridization Using Allosteric DNA Tetrahedral Nanostructures. <i>Analytical Chemistry</i> , 2016, 88, 8043-8049.	6.5	54
44	Effect of Gd doping on structural, optical properties, photoluminescence and electrical characteristics of CdS nanoparticles for optoelectronics. <i>Ceramics International</i> , 2019, 45, 10133-10141.	4.8	54
45	Convection-Driven Pull-Down Assays in Nanoliter Droplets Using Scaffolded Aptamers. <i>Analytical Chemistry</i> , 2017, 89, 3468-3473.	6.5	52
46	Nitrogen-Doped Carbon Quantum Dots from Poly(ethyleneimine) for Optical Dual-Mode Determination of Cu <sup>2+</sup> and L-Cysteine and Their Logic Gate Operation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47245-47255.	8.0	52
47	A facile one-pot flash combustion synthesis of La@ZnO nanoparticles and their characterizations for optoelectronic and photocatalysis applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 395, 112465.	3.9	51
48	Development of antimicrobial, UV blocked and photocatalytic self-cleanable cotton fibers decorated with silver nanoparticles using silver carbamate and plasma activation. <i>Cellulose</i> , 2021, 28, 1105-1121.	4.9	50
49	Development of 2-D Boron Nitride Nanosheets UV Photoconductive Detectors. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 1885-1890.	3.0	49
50	The antimicrobial activity of silver nanoparticles biocomposite films depends on the silver ions release behaviour. <i>Food Chemistry</i> , 2021, 359, 129859.	8.2	49
51	Sodium alginate-functionalized nanodiamonds as sustained chemotherapeutic drug-release vectors. <i>Carbon</i> , 2016, 97, 78-86.	10.3	48
52	Programmable Live-Cell CRISPR Imaging with Toehold-Switch-Mediated Strand Displacement. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20612-20618.	13.8	48
53	Convective flow of a Maxwell hybrid nanofluid due to pressure gradient in a channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1319-1329.	3.6	48
54	Chemical and Electrochemical Synthesis of Polypyrrole Using Carrageenan as a Dopant: Polypyrrole/Multi-Walled Carbon Nanotube Nanocomposites. <i>Polymers</i> , 2018, 10, 632.	4.5	47

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55	In vivo study of conductive 3D printed PCL/MWCNTs scaffolds with electrical stimulation for bone tissue engineering. <i>Bio-Design and Manufacturing</i> , 2021, 4, 190-202.	7.7	46
56	Bacterial Analysis Using an Electrochemical DNA Biosensor with Poly-Adenine-Mediated DNA Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6895-6903.	8.0	45
57	Fabrication of functionalized electrospun carbon nanofibers for enhancing lead-ion adsorption from aqueous solutions. <i>Scientific Reports</i> , 2019, 9, 19467.	3.3	44
58	Nickel ferrite beehive-like nanosheets for binder-free and high-energy-storage supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156929.	5.5	44
59	Uniform Doping of Titanium in Hematite Nanorods for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14072-14078.	8.0	43
60	Elaborately designed diblock nanoprobe for simultaneous multicolor detection of microRNAs. <i>Nanoscale</i> , 2015, 7, 15822-15829.	5.6	43
61	Immobilization of anthocyanin extract from red-cabbage into electrospun polyvinyl alcohol nanofibers for colorimetric selective detection of ferric ions. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105072.	6.7	43
62	Mesoporous multi-silica layer-coated Y <sub>2</sub> O <sub>3</sub> :Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. <i>Materials Science and Engineering C</i> , 2019, 96, 365-373.	7.3	42
63	Facile development of photochromic cellulose acetate transparent nanocomposite film immobilized with lanthanide-doped pigment: ultraviolet blocking, superhydrophobic, and antimicrobial activity. <i>Luminescence</i> , 2021, 36, 543-555.	2.9	42
64	Electrical and mechanical characteristics of buckypapers and evaporative cast films prepared using single and multi-walled carbon nanotubes and the biopolymer carrageenan. <i>Carbon</i> , 2012, 50, 1197-1208.	10.3	41
65	Aptamer-initiated on-particle template-independent enzymatic polymerization (aptamer-OTEP) for electrochemical analysis of tumor biomarkers. <i>Biosensors and Bioelectronics</i> , 2016, 86, 536-541.	10.1	41
66	A flexible humidity sensor based on KCa-MWCNTs composites. <i>Applied Surface Science</i> , 2016, 387, 149-154.	6.1	41
67	Facile synthesis of highly thermally stable TiO <sub>2</sub> photocatalysts. <i>New Journal of Chemistry</i> , 2017, 41, 5021-5027.	2.8	41
68	PLCL/Silk fibroin based antibacterial nano wound dressing encapsulating oregano essential oil: Fabrication, characterization and biological evaluation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111352.	5.0	40
69	Poly-adenine-based programmable engineering of gold nanoparticles for highly regulated spherical DNazymes. <i>Nanoscale</i> , 2015, 7, 18671-18676.	5.6	38
70	Engineered dual-scale poly (Îµ-caprolactone) scaffolds using 3D printing and rotational electrospinning for bone tissue regeneration. <i>Additive Manufacturing</i> , 2020, 36, 101452.	3.0	38
71	Core-shell Au@Se nanoparticles embedded in cellulose acetate/polyvinylidene fluoride scaffold for wound healing. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15045-15056.	5.8	38
72	Preparation of flame-retardant, hydrophobic, ultraviolet protective, and luminescent transparent wood. <i>Luminescence</i> , 2021, 36, 1922-1932.	2.9	38

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73	Vertical metal-semiconductor-metal deep UV photodetectors based on hexagonal boron nitride nanosheets prepared by laser plasma deposition. <i>Optical Materials Express</i> , 2016, 6, 3286.	3.0	37
74	Facile development of microporous cellulose acetate xerogel immobilized with hydrazone probe for real time vapochromic detection of toxic ammonia. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104573.	6.7	34
75	New amphiphilic pyridinium ionic liquids for demulsification of water Arabic heavy crude oil emulsions. <i>Journal of Molecular Liquids</i> , 2020, 312, 113407.	4.9	34
76	Fabrications and application of single crystalline GaN for high-performance deep UV photodetectors. <i>AIP Advances</i> , 2016, 6, .	1.3	33
77	DNA-Based Fabrication for Nanoelectronics. <i>Nano Letters</i> , 2020, 20, 5604-5615.	9.1	33
78	Autophagy and lysosomal dysfunction: A new insight into mechanism of synergistic pulmonary toxicity of carbon black-metal ions co-exposure. <i>Carbon</i> , 2017, 111, 322-333.	10.3	32
79	In Situ Preparation of Novel Porous Nanocomposite Hydrogel as Effective Adsorbent for the Removal of Cationic Dyes from Polluted Water. <i>Polymers</i> , 2020, 12, 3002.	4.5	31
80	Nanoprobe-Initiated Enzymatic Polymerization for Highly Sensitive Electrochemical DNA Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25618-25623.	8.0	30
81	Nanocubes of indium oxide induce cytotoxicity and apoptosis through oxidative stress in human lung epithelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 157-164.	5.0	30
82	Synthesis of Nanoporous Ni-Co Mixed Oxides by Thermal Decomposition of Metal-Cyanide Coordination Polymers. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1541-1545.	3.3	29
83	Alkali-activated electrospun carbon nanofibers as an efficient bifunctional adsorbent for cationic and anionic dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 582, 123835.	4.7	29
84	Development of Green and Sustainable Cellulose Acetate/Graphene Oxide Nanocomposite Films as Efficient Adsorbents for Wastewater Treatment. <i>Polymers</i> , 2020, 12, 2501.	4.5	29
85	Real-Time Continuous Identification of Greenhouse Plant Pathogens Based on Recyclable Microfluidic Bioassay System. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31568-31575.	8.0	28
86	Silica Nanoparticles Target a Wnt Signal Transducer for Degradation and Impair Embryonic Development in Zebrafish. <i>Theranostics</i> , 2016, 6, 1810-1820.	10.0	27
87	The Inhibition Effect of Graphene Oxide Nanosheets on the Development of <i>Streptococcus mutans</i> Biofilms. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700001.	2.3	27
88	k-Carrageenan – A versatile biopolymer for the preparation of a hydrophilic PVDF composite membrane. <i>European Polymer Journal</i> , 2019, 120, 109219.	5.4	27
89	One-step straightforward synthesis of Tb-doped NiO nanocomposites using flash combustion method: Structural, optical, luminescent, and electrical switching properties. <i>Ceramics International</i> , 2020, 46, 10678-10690.	4.8	27
90	Variations in Crystalline Structures and Electrical Properties of Single Crystalline Boron Nitride Nanosheets. <i>Scientific Reports</i> , 2015, 5, 16703.	3.3	25

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91	Electrochemical detection of PCR amplicons of Escherichia coli genome based on DNA nanostructural probes and polyHRP enzyme. <i>Analyst</i> , The, 2016, 141, 5304-5310.	3.5	25
92	High-Performance and Self-Powered Deep UV Photodetectors Based on High Quality 2D Boron Nitride Nanosheets. <i>Nanomaterials</i> , 2017, 7, 454.	4.1	25
93	Core-shell nanofibers from poly(vinyl alcohol) based biopolymers using emulsion electrospinning as drug delivery system for cephalexin drug. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2021, 58, 130-144.	2.2	25
94	Dealloying of Mesoporous PtCu Alloy Film for the Synthesis of Mesoporous Pt Films with High Electrocatalytic Activity. <i>Chemistry - an Asian Journal</i> , 2015, 10, 316-320.	3.3	24
95	Highly biocompatible, monodispersed and mesoporous La(OH) <sub>3</sub> :Eu@mSiO <sub>2</sub> core-shell nanospheres: Synthesis and luminescent properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 133-139.	5.0	24
96	Dodecahedral ZnO/C framework on reduced graphene oxide sheets for high-performance Li-ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155208.	5.5	24
97	Graphene Nanoprobes for Real-Time Monitoring of Isothermal Nucleic Acid Amplification. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15245-15253.	8.0	23
98	Catalyst-free synthesis of carbon nanospheres for potential biomedical applications: waste to wealth approach. <i>RSC Advances</i> , 2015, 5, 24528-24533.	3.6	22
99	Impact of surface coating on physical properties of europium-doped gadolinium fluoride microspheres. <i>Journal of Fluorine Chemistry</i> , 2017, 199, 7-13.	1.7	22
100	Enhanced hydrogen evolution reaction on highly stable titania-supported PdO and Eu <sub>2</sub> O <sub>3</sub> nanocomposites in a strong alkaline solution. <i>International Journal of Energy Research</i> , 2019, 43, 5367-5383.	4.5	22
101	Mesoporous silica modified luminescent Gd <sub>2</sub> O <sub>3</sub> :Eu nanoparticles: physicochemical and luminescence properties. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 785-795.	2.4	22
102	Tailoring the structure-morphology-vibrational-optical-dielectric and electrical characteristics of Ce@NiO NPs produced by facile combustion route for optoelectronics. <i>Materials Science in Semiconductor Processing</i> , 2021, 126, 105647.	4.0	22
103	Conducting composite materials from the biopolymer kappa-carrageenan and carbon nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 415-427.	2.8	21
104	Preparation of a platinum electrocatalyst by coaxial pulse arc plasma deposition. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 024804.	6.1	20
105	A Strategy to Enhance the Electrode Performance of Novel Three-Dimensional PEDOT/RVC Composites by Electrochemical Deposition Method. <i>Polymers</i> , 2017, 9, 157.	4.5	20
106	An atorvastatin calcium and poly(L-lactide-co-caprolactone) core-shell nanofiber-covered stent to treat aneurysms and promote reendothelialization. <i>Acta Biomaterialia</i> , 2020, 111, 102-117.	8.3	20
107	Synthesis, Anti-microbial and Molecular Docking Studies of Quinazolin-4(3H)-one Derivatives. <i>Molecules</i> , 2014, 19, 8725-8739.	3.8	19
108	Polyimide-carbon nanotubes nanocomposites: electrical conduction behavior under cryogenic condition. <i>Polymer Engineering and Science</i> , 2017, 57, 291-298.	3.1	19

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109	Improvement in Electrode Performance of Novel SWCNT Loaded Three-Dimensional Porous RVC Composite Electrodes by Electrochemical Deposition Method. <i>Nanomaterials</i> , 2018, 8, 19.	4.1	19
110	Simple Development of Novel Reversible Colorimetric Thermometer Using Urea Organogel Embedded with Thermochromic Hydrazone Chromophore. <i>Chemosensors</i> , 2020, 8, 132.	3.6	18
111	Lab on smartphone with interfaced electrochemical chips for on-site gender verification. <i>Journal of Electroanalytical Chemistry</i> , 2016, 777, 117-122.	3.8	17
112	Recognizing single phospholipid vesicle collisions on carbon fiber nanoelectrode. <i>Science China Chemistry</i> , 2017, 60, 1474-1480.	8.2	17
113	Epitope Binning Assay Using an Electron Transfer-Modulated Aptamer Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 341-349.	8.0	17
114	Single-Walled Carbon Nanotube (SWCNT) Loaded Porous Reticulated Vitreous Carbon (RVC) Electrodes Used in a Capacitive Deionization (CDI) Cell for Effective Desalination. <i>Nanomaterials</i> , 2018, 8, 527.	4.1	17
115	Pool boiling enhancement using hierarchically structured ZnO nanowires grown via electrospraying and chemical bath deposition. <i>Applied Thermal Engineering</i> , 2021, 187, 116553.	6.0	17
116	Multifunctional Yolk-Shell Nanostructure as a Superquencher for Fluorescent Analysis of Potassium Ion Using Guanine-Rich Oligonucleotides. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30406-30413.	8.0	16
117	Pyridylimine Cobalt(II) and Nickel(II) Complex Functionalized Multiwalled Carbon Nanotubes and Their Catalytic Activities for Ethylene Oligomerization. <i>Advances in Polymer Technology</i> , 2016, 35, .	1.7	15
118	A Facile Approach for Elimination of Electroneutral/Anionic Organic Dyes from Water Using a Developed Carbon-Based Polymer Nanocomposite Membrane. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	15
119	Fringe structures and tunable bandgap width of 2D boron nitride nanosheets. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1186-1192.	2.8	14
120	Effect of Bi contents on key physical properties of NiO NPs synthesized by flash combustion process and their cytotoxicity studies for biomedical applications. <i>Ceramics International</i> , 2020, 46, 19691-19700.	4.8	14
121	Wearable multifunctional soft sensor and contactless 3D scanner using supersonically sprayed silver nanowires, carbon nanotubes, zinc oxide, and PEDOT:PSS. <i>NPG Asia Materials</i> , 2022, 14, .	7.9	14
122	Synthesis and Antiproliferative Activity of a New Series of Mono- and Bis(dimethylpyrazolyl)-triazine Derivatives Targeting EGFR/PI3K/AKT/mTOR Signaling Cascades. <i>ACS Omega</i> , 2022, 7, 24858-24870.	3.5	14
123	Encapsulation of an Interpenetrated Diamondoid Inorganic Building Block in a Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2015, 21, 4931-4934.	3.3	13
124	High density polyethylene and metal oxides based nanocomposites for high voltage cable application. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51787.	2.6	13
125	Ordered Hexagonal Mesoporous Aluminosilicates and their Application in Ligand-Free Synthesis of Secondary Amines. <i>ChemCatChem</i> , 2015, 7, 747-751.	3.7	12
126	Size- and shape-controlled synthesis of well-organised carbon nanotubes using nanoporous anodic alumina with different pore diameters. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 375-389.	9.4	12



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127	UV photodetector based on energy bandgap shifted hexagonal boron nitride nanosheets for high-temperature environments. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 045102.	2.8	12
128	Synthesis of aminated electrospun carbon nanofibers and their application in removal of cationic dye. <i>Materials Research Bulletin</i> , 2020, 132, 111003.	5.2	12
129	Facile production of smart superhydrophobic nanocomposite for wood coating towards long-lasting glow-in-the-dark photoluminescence. <i>Luminescence</i> , 2021, 36, 2004-2013.	2.9	12
130	Enhanced visible light photocatalytic activity and hydrogen evolution through novel heterostructure Ag <sub>2</sub> S/TiO <sub>2</sub> nanocomposites. <i>Journal of Molecular Catalysis A</i> , 2015, 410, 242-252.	4.8	11
131	Synthesis, Antiphospholipase A2, Antiprotease, Antibacterial Evaluation and Molecular Docking Analysis of Certain Novel Hydrazones. <i>Molecules</i> , 2016, 21, 1664.	3.8	11
132	ALD-coated ultrathin Al <sub>2</sub> O <sub>3</sub> film on BiVO <sub>4</sub> nanoparticles for efficient PEC water splitting. <i>Nuclear Science and Techniques/Hewuli</i> , 2016, 27, 1.	3.4	11
133	Highly biocompatible carbon nanocapsules derived from plastic waste for advanced cancer therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 41, 351-358.	3.0	11
134	Temperature-Responsive Polymer Microgel-Gold Nanorods Composite Particles: Physicochemical Characterization and Cytocompatibility. <i>Polymers</i> , 2018, 10, 99.	4.5	11
135	In-vitro cytotoxicity evaluation of surface design luminescent lanthanide core/shell nanocrystals. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1259-1270.	4.9	11
136	Nanostructured Tungsten Oxide Composite for High-Performance Gas Sensors. <i>Sensors</i> , 2015, 15, 27035-27046.	3.8	10
137	Fabrication and characterisation of sulfur and phosphorus (S/P) co-doped carbon nanotubes. <i>Chemical Physics Letters</i> , 2016, 658, 92-96.	2.6	10
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