

# Inamuddin

## List of Publications by Year in descending order

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227  
papers

9,192  
citations

29994

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51492

86  
g-index

254  
all docs

254  
docs citations

254  
times ranked

8790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in phase change materials for energy storage applications: A review. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 491-523.	2.5	939
2	Recent trends in the synthesis of graphene and graphene oxide based nanomaterials for removal of heavy metals – A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 29-44.	2.9	299
3	Recent progress and remaining challenges in post-combustion CO <sub>2</sub> capture using metal-organic frameworks (MOFs). <i>Progress in Energy and Combustion Science</i> , 2020, 80, 100849.	15.8	235
4	Smartphone based bioanalytical and diagnosis applications: A review. <i>Biosensors and Bioelectronics</i> , 2018, 102, 136-149.	5.3	227
5	Metal-organic frameworks (MOFs)-based efficient heterogeneous photocatalysts: Synthesis, properties and its applications in photocatalytic hydrogen generation, CO <sub>2</sub> reduction and photodegradation of organic dyes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7656-7679.	3.8	214
6	Efficient Electron Transfer across a ZnO/MoS <sub>2</sub> -Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2017, 10, 3588-3603.	3.6	162
7	Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 385-394.	2.5	156
8	Carbon nanotube-based adsorbents for the removal of dyes from waters: A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 605-629.	8.3	152
9	One-step wet-chemical synthesis of ternary ZnO/CuO/Co <sub>3</sub> O <sub>4</sub> nanoparticles for sensitive and selective melamine sensor development. <i>New Journal of Chemistry</i> , 2019, 43, 4849-4858.	1.4	149
10	Nano-engineered Adsorbent for the Removal of Dyes from Water: A Review. <i>Current Analytical Chemistry</i> , 2020, 16, 14-40.	0.6	148
11	Carbon-based nanomaterials for remediation of organic and inorganic pollutants from wastewater. A review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1169-1191.	8.3	145
12	Exploring the Reusability of Synthetically Contaminated Wastewater Containing Crystal Violet Dye using Tectona grandis Sawdust as a Very Low-Cost Adsorbent. <i>Scientific Reports</i> , 2018, 8, 8314.	1.6	140
13	Preparation and characterization of a new organic-inorganic nano-composite poly-o-toluidine Th(IV) phosphate: Its analytical applications as cation-exchanger and in making ion-selective electrode. <i>Talanta</i> , 2007, 72, 699-710.	2.9	122
14	Simultaneous nutrient removal and lipid production from pretreated piggery wastewater by <i>Chlorella vulgaris</i> YSW-04. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2701-2710.	1.7	113
15	Nanostructured mixed transition metal oxides for high performance asymmetric supercapacitors: Facile synthetic strategy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12384-12395.	3.8	110
16	Multiwalled carbon nanotube-based nanosensor for ultrasensitive detection of uric acid, dopamine, and ascorbic acid. <i>Materials Science and Engineering C</i> , 2019, 99, 248-254.	3.8	109
17	Nanotechnology-based water quality management for wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019, 17, 65-121.	8.3	105
18	Preparation, characterization and analytical applications of a new and novel electrically conducting fibrous type polymeric-inorganic composite material: polypyrrole Th(IV) phosphate used as a cation-exchanger and Pb(II) ion-selective membrane electrode. <i>Materials Research Bulletin</i> , 2005, 40, 289-305.	2.7	104

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19	ZnSe-WO <sub>3</sub> nano-hetero-assembly stacked on Gum ghatti for photo-degradative removal of Bisphenol A: Symbiose of adsorption and photocatalysis. International Journal of Biological Macromolecules, 2017, 104, 1172-1184.	3.6	101
20	Microwave assisted fabrication of La/Cu/Zr/carbon dots trimetallic nanocomposites with their adsorption vs photocatalytic efficiency for remediation of persistent organic pollutants. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 347, 235-243.	2.0	100
21	Nanostructured semiconducting materials for efficient hydrogen generation. Environmental Chemistry Letters, 2018, 16, 765-796.	8.3	97
22	Performance intensification of the polysulfone ultrafiltration membrane by blending with copolymer encompassing novel derivative of poly(styrene-co-maleic anhydride) for heavy metal removal from wastewater. Chemical Engineering Journal, 2018, 353, 425-435.	6.6	96
23	Removal of metal ions and humic acids through polyetherimide membrane with grafted bentonite clay. Scientific Reports, 2018, 8, 4665.	1.6	93
24	Factors influencing corrosion of metal pipes in soils. Environmental Chemistry Letters, 2018, 16, 861-879.	8.3	92
25	Synthesis, characterization and ion-exchange properties of a new and novel $\tilde{\text{organic}}^{\text{inorganic}}^{\text{TM}}$ hybrid cation-exchanger: Nylon-6,6, Zr(IV) phosphate. Talanta, 2007, 71, 841-847.	2.9	89
26	Use of cellulose acetate/polyphenylsulfone derivatives to fabricate ultrafiltration hollow fiber membranes for the removal of arsenic from drinking water. International Journal of Biological Macromolecules, 2019, 129, 715-727.	3.6	89
27	Synthesis, characterization and ion-exchange properties of a new and novel $\tilde{\text{organic}}^{\text{inorganic}}^{\text{TM}}$ hybrid cation-exchanger: Poly(methyl methacrylate) Zr(IV) phosphate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 295, 193-199.	2.3	88
28	Determination and separation of Pb <sup>2+</sup> from aqueous solutions using a fibrous type $\tilde{\text{organic}}^{\text{inorganic}}$ hybrid cation-exchange material: Polypyrrole thorium(IV) phosphate. Reactive and Functional Polymers, 2005, 63, 119-133.	2.0	87
29	Kinetics, isotherm and thermodynamic investigations for the adsorption of Co(II) ion onto crystal violet modified amberlite IR-120 resin. Ionics, 2015, 21, 1453-1459.	1.2	87
30	Graphene and its derivatives: synthesis, modifications, and applications in wastewater treatment. Environmental Chemistry Letters, 2018, 16, 1301-1323.	8.3	84
31	Polyphenylsulfone/multiwalled carbon nanotubes mixed ultrafiltration membranes: Fabrication, characterization and removal of heavy metals Pb <sup>2+</sup> , Hg <sup>2+</sup> , and Cd <sup>2+</sup> from aqueous solutions. Arabian Journal of Chemistry, 2020, 13, 4661-4672.	2.3	81
32	Novel Z-scheme binary zinc tungsten oxide/nickel ferrite nanohybrids for photocatalytic reduction of chromium (Cr (VI)), photoelectrochemical water splitting and degradation of toxic organic pollutants. Journal of Hazardous Materials, 2022, 423, 127044.	6.5	81
33	Fouling-resistant membranes for water reuse. Environmental Chemistry Letters, 2018, 16, 715-763.	8.3	80
34	Preparation, physico-chemical characterization, analytical applications and electrical conductivity measurement studies of an $\tilde{\text{organic}}^{\text{inorganic}}^{\text{TM}}$ composite cation-exchanger: Polyaniline Sn(IV) phosphate. Reactive and Functional Polymers, 2006, 66, 1649-1663.	2.0	76
35	Mimics of microstructures of Ni substituted Mn <sub>1-x</sub> Ni <sub>x</sub> Co <sub>2</sub> O <sub>4</sub> for high energy density asymmetric capacitors. Chemical Engineering Journal, 2017, 307, 300-310.	6.6	76
36	Applications of Hg(II) sensitive polyaniline Sn(IV) phosphate composite cation-exchange material in determination of Hg <sup>2+</sup> from aqueous solutions and in making ion-selective membrane electrode. Sensors and Actuators B: Chemical, 2006, 120, 10-18.	4.0	73

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37	Synthesis and characterization of a new inorganic cation-exchangerâ€™Zr(IV) tungstomolybdate: Analytical applications for metal content determination in real sample and synthetic mixture. <i>Journal of Hazardous Materials</i> , 2007, 142, 404-411.	6.5	72
38	Organicâ€™inorganic type composite cation exchanger poly-o-toluidine Zr(IV) tungstate: Preparation, physicochemical characterization and its analytical application in separation of heavy metals. <i>Chemical Engineering Journal</i> , 2011, 172, 369-375.	6.6	72
39	Synthesis of magnetic carbon nanocomposites by hydrothermal carbonization and pyrolysis. <i>Environmental Chemistry Letters</i> , 2018, 16, 821-844.	8.3	72
40	Catalyst design for maximizing C5+ yields during Fischer-Tropsch synthesis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3289-3301.	3.8	72
41	Membrane technology for water purification. <i>Environmental Chemistry Letters</i> , 2018, 16, 343-365.	8.3	71
42	Xanthan gum/titanium dioxide nanocomposite for photocatalytic degradation of methyl orange dye. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 1046-1053.	3.6	71
43	CuO Quantum Dots Decorated TiO <sub>2</sub> Nanocomposite Photocatalyst for Stable Hydrogen Generation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 568-577.	1.8	69
44	Photocatalytic Reforming of Biomass Derived Crude Glycerol in Water: A Sustainable Approach for Improved Hydrogen Generation Using Ni(OH) <sub>2</sub> Decorated TiO <sub>2</sub> Nanotubes under Solar Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3754-3764.	3.2	67
45	Nanohydroxyapatite Reinforced Chitosan Composite Hydrogel with Tunable Mechanical and Biological Properties for Cartilage Regeneration. <i>Scientific Reports</i> , 2019, 9, 15957.	1.6	65
46	Effect of cellulose nano fibers and nano clays on the mechanical, morphological, thermal and dynamic mechanical performance of kenaf/epoxy composites. <i>Carbohydrate Polymers</i> , 2020, 239, 116248.	5.1	65
47	Iron-based flow batteries to store renewable energies. <i>Environmental Chemistry Letters</i> , 2018, 16, 683-694.	8.3	61
48	Applications of chitosan (CHI)-reduced graphene oxide (rGO)-polyaniline (PANI) conducting composite electrode for energy generation in glucose biofuel cell. <i>Scientific Reports</i> , 2020, 10, 10428.	1.6	61
49	Removal of Pb(II) from aqueous solution using ethylene diamine tetra acetic acid-Zr(IV) iodate composite cation exchanger: Kinetics, isotherms and thermodynamic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 35-41.	2.9	60
50	Green synthesis of ZnO nanoparticles decorated on polyindole functionalized-MCNTs and used as anode material for enzymatic biofuel cell applications. <i>Scientific Reports</i> , 2020, 10, 5052.	1.6	60
51	Novel, one-step synthesis of zwitterionic polymer nanoparticles via distillation-precipitation polymerization and its application for dye removal membrane. <i>Scientific Reports</i> , 2017, 7, 15889.	1.6	59
52	Preparation and characterization of PANI@G/CWO nanocomposite for enhanced 2-nitrophenol sensing. <i>Applied Surface Science</i> , 2018, 433, 696-704.	3.1	59
53	Ag@MnxOy: an effective catalyst for photo-degradation of rhodamine B dye. <i>Environmental Chemistry Letters</i> , 2018, 16, 287-294.	8.3	58
54	Optimization of N doping in TiO <sub>2</sub> nanotubes for the enhanced solar light mediated photocatalytic H <sub>2</sub> production and dye degradation. <i>Environmental Pollution</i> , 2021, 269, 116170.	3.7	58

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55	Carbon nanotube- and graphene-based advanced membrane materials for desalination. <i>Environmental Chemistry Letters</i> , 2017, 15, 643-671.	8.3	54
56	Novel polyphenylsulfone (PPSU)/nano tin oxide (SnO <sub>2</sub> ) mixed matrix ultrafiltration hollow fiber membranes: Fabrication, characterization and toxic dyes removal from aqueous solutions. <i>Reactive and Functional Polymers</i> , 2019, 139, 170-180.	2.0	54
57	Adsorption thermodynamics of trichloroacetic acid herbicide on polypyrrole Th(IV) phosphate composite cation-exchanger. <i>Chemical Engineering Journal</i> , 2011, 169, 38-42.	6.6	50
58	Fabrication of polyetherimide nanocomposite membrane with amine functionalised halloysite nanotubes for effective removal of cationic dye effluents. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 42-53.	2.7	48
59	Cerium dioxide and composites for the removal of toxic metal ions. <i>Environmental Chemistry Letters</i> , 2018, 16, 1233-1246.	8.3	47
60	Complexing agents for metal removal using ultrafiltration membranes: a review. <i>Environmental Chemistry Letters</i> , 2019, 17, 1195-1208.	8.3	45
61	Green Synthesis of Silver Nanoparticles and Evaluation of Their Antibacterial Activity against Multidrug-Resistant Bacteria and Wound Healing Efficacy Using a Murine Model. <i>Antibiotics</i> , 2020, 9, 902.	1.5	45
62	Synthesis and characterization of a thermally stable strongly acidic Cd(II) ion selective composite cation-exchanger: Polyaniline Ce(IV) molybdate. <i>Desalination</i> , 2010, 250, 515-522.	4.0	44
63	Determination of ion-exchange kinetic parameters for the poly-o-methoxyaniline Zr(IV) molybdate composite cation-exchanger. <i>Chemical Engineering Journal</i> , 2011, 166, 639-645.	6.6	44
64	Optimization of Glucose Powered Biofuel Cell Anode Developed by Polyaniline-Silver as Electron Transfer Enhancer and Ferritin as Biocompatible Redox Mediator. <i>Scientific Reports</i> , 2017, 7, 12703.	1.6	43
65	Functionalized magnetic nanoparticle-reduced graphene oxide nanocomposite for enzymatic biofuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28294-28304.	3.8	43
66	Ternary graphene@polyaniline-TiO <sub>2</sub> composite for glucose biofuel cell anode application. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22173-22180.	3.8	42
67	Synthesis and characterization of electrically conducting poly-o-methoxyaniline Zr(IV) molybdate Cd(II) selective composite cation-exchanger. <i>Desalination</i> , 2010, 250, 523-529.	4.0	41
68	Optimization of MnO <sub>2</sub> -Graphene/polythioaniline (MnO <sub>2</sub> -G/PTA) hybrid nanocomposite for the application of biofuel cell bioanode. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15144-15154.	3.8	41
69	Kraton based ionic polymer metal composite (IPMC) actuator. <i>Sensors and Actuators A: Physical</i> , 2014, 216, 295-300.	2.0	40
70	Synthesis and characterization of a novel electron conducting biocomposite as biofuel cell anode. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 755-762.	3.6	40
71	Antibiofouling hollow-fiber membranes for dye rejection by embedding chitosan and silver-loaded chitosan nanoparticles. <i>Environmental Chemistry Letters</i> , 2019, 17, 581-587.	8.3	40
72	Electrocatalytic Performance of Chemically Synthesized PIn-Au-SGO Composite toward Mediated Biofuel Cell Anode. <i>Scientific Reports</i> , 2017, 7, 13353.	1.6	39

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73	Forward ( $M^{2+} + H^+$ ) and reverse ( $H^+ + M^{2+}$ ) ion exchange kinetics of the heavy metals on polyaniline Ce(IV) molybdate: A simple practical approach for the determination of regeneration and separation capability of ion exchanger. <i>Chemical Engineering Journal</i> , 2011, 171, 456-463.	6.6	38
74	Thermal energy storage and thermal conductivity properties of fatty acid/fatty acid-grafted-CNTs and fatty acid/CNTs as novel composite phase change materials. <i>Scientific Reports</i> , 2020, 10, 15388.	1.6	37
75	Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H <sub>2</sub> generation and quantum efficiency at versatile photocatalytic conditions. <i>Journal of Hazardous Materials</i> , 2021, 413, 125359.	6.5	36
76	A conducting polymer/ferritin anode for biofuel cell applications. <i>Electrochimica Acta</i> , 2009, 54, 3979-3983.	2.6	33
77	A review: Evolution of enzymatic biofuel cells. <i>Journal of Environmental Management</i> , 2021, 298, 113483.	3.8	31
78	Three dimensional numerical investigations for the effects of gas diffusion layer on PEM fuel cell performance. <i>Renewable Energy</i> , 2011, 36, 529-535.	4.3	30
79	Optimization of glassy carbon electrode based graphene/ferritin/glucose oxidase bioanode for biofuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7417-7421.	3.8	30
80	Multifunctional Zn <sub>0.3</sub> Al <sub>0.4</sub> O <sub>4.5</sub> crystals: An efficient photocatalyst for formaldehyde degradation and EBT adsorption. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8262-8270.	2.3	30
81	Thermal energy storage and thermal conductivity properties of Octadecanol-MWCNT composite PCMs as promising organic heat storage materials. <i>Scientific Reports</i> , 2020, 10, 9168.	1.6	29
82	Development of sulfonated poly(vinyl alcohol)/polypyrrole based ionic polymer metal composite (IPMC) actuator and its characterization. <i>Smart Materials and Structures</i> , 2015, 24, 095003.	1.8	28
83	One-pot biosynthesis of silver nanoparticle using <i>Colocasia esculenta</i> extract: Colorimetric detection of melamine in biological samples. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 391, 112310.	2.0	28
84	Organic-inorganic Composite Cation-exchanger: Poly-o-toluidine Zr(IV) Phosphate-based Ion-selective Membrane Electrode for the Potentiometric Determination of Mercury. <i>Analytical Sciences</i> , 2008, 24, 881-887.	0.8	27
85	Fabrication and characterization of electrochemically prepared bioanode (polyaniline/ferritin/glucose oxidase) for biofuel cell application. <i>Chemical Physics Letters</i> , 2018, 692, 277-284.	1.2	27
86	Preparation and characterization of a bioanode (GC/MnO <sub>2</sub> /PSS/Gph/Frt/GOx) for biofuel cell application. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7308-7319.	3.8	27
87	Development of a ternary conducting composite (PPy/Au/CNT@Fe <sub>3</sub> O <sub>4</sub> ) immobilized FRT/GOD bioanode for glucose/oxygen biofuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3259-3269.	3.8	27
88	Kraton based polymeric nanocomposite bioanode for the application in a biofuel cell. <i>Enzyme and Microbial Technology</i> , 2019, 127, 43-49.	1.6	26
89	Application of Electrically Conducting Nanocomposite Material Polythiophene@NiO/Frt/GOx as Anode for Enzymatic Biofuel Cells. <i>Materials</i> , 2020, 13, 1823.	1.3	26
90	Fe <sub>3</sub> O <sub>4</sub> @ $\beta$ -cyclodextrin@Chitosan Bionanocomposite for Arsenic Removal from Aqueous Solution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 467-480.	1.9	25

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91	Development, Characterization and Electromechanical Actuation Behavior of Ionic Polymer Metal Composite Actuator based on Sulfonated Poly(1,4-phenylene ether-ether-sulfone)/Carbon Nanotubes. <i>Scientific Reports</i> , 2018, 8, 9909.	1.6	25
92	Electrochemical characterization and transport properties of polyvinyl chloride based carboxymethyl cellulose Ce(IV) molybdophosphate composite cation exchange membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1391-1397.	2.9	24
93	PVC based polyvinyl alcohol zinc oxide composite membrane: Synthesis and electrochemical characterization for heavy metal ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1365-1370.	2.9	24
94	$\text{TiO}_2$ -MoO <sub>3</sub> -C composite as counter electrode for quantum dot sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 96-101.	3.0	24
95	Development of sulfonated poly(vinyl alcohol)/aluminium oxide/graphene based ionic polymer-metal composite (IPMC) actuator. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 114-124.	2.0	24
96	Wastewater Treatment and Biomedical Applications of Montmorillonite Based Nanocomposites: A Review. <i>Current Analytical Chemistry</i> , 2021, 18, 269-287.	0.6	24
97	Turmeric/polyvinyl alcohol Th(IV) phosphate electrospun fibers: Synthesis, characterization and antimicrobial studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 68, 407-414.	2.7	23
98	The adsorptive removal of Cr(VI) ions and antibacterial activity studies on hydrothermally synthesized iron oxide and zinc oxide nanocomposite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 342-349.	2.7	23
99	Improved desalination by polyamide membranes containing hydrophilic glutamine and glycine. <i>Environmental Chemistry Letters</i> , 2019, 17, 1053-1059.	8.3	23
100	Simultaneous detection of ethambutol and pyrazinamide with IL@CoFe <sub>2</sub> O <sub>4</sub> NPs@MWCNTs fabricated glassy carbon electrode. <i>Scientific Reports</i> , 2020, 10, 13563.	1.6	23
101	Electrical conductivity and ion-exchange kinetic studies of a crystalline type 'organic' inorganic' cation-exchange material: polypyrrole/polyantimonic acid composite system, (Sb <sub>2</sub> O <sub>5</sub> ) (â€“(C <sub>4</sub> H <sub>2</sub> NHâ€“)âˆ™nH <sub>2</sub> O. <i>Journal of Electroanalytical Chemistry</i> , 2004, 572, 67-78.	1.9	22
102	Optimization of Polyaniline Supported Ti(IV) Arsenophosphate Composite Cation Exchanger Based Ion-Selective Membrane Electrode for the Determination of Lead. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 19387-19391.	1.8	22
103	Polyvinylidene fluoride/sulfonated graphene oxide blend membrane coated with polypyrrole/platinum electrode for ionic polymer metal composite actuator applications. <i>Scientific Reports</i> , 2019, 9, 9877.	1.6	22
104	Electrochemical studies of biocatalytic anode of sulfonated graphene/ferritin/glucose oxidase layer-by-layer biocomposite films for mediated electron transfer. <i>Enzyme and Microbial Technology</i> , 2016, 87-88, 29-36.	1.6	21
105	Electrical switching behaviour of a metalloporphyrin in Langmuir-Blodgett film. <i>Organic Electronics</i> , 2018, 55, 50-62.	1.4	21
106	Development of l-glutamic acid biosensor with ternary ZnO/NiO/Al <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Luminescence</i> , 2020, 227, 117528.	1.5	21
107	Synthesis and characterisation of poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) (PEDOT:PSS) Zr(IV) monothiophosphate composite cation exchanger: analytical application in the selective separation of lead metal ions. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 556-568.	1.8	20
108	Computational studies on the molecular insights of aptamer induced poly(N-isopropylacrylamide)-graft-graphene oxide for on/off- switchable whole-cell cancer diagnostics. <i>Scientific Reports</i> , 2019, 9, 7873.	1.6	20

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109	Optimization of rGO-PEI/Naph-SH/AgNWs/Frt/GOx nanocomposite anode for biofuel cell applications. <i>Scientific Reports</i> , 2020, 10, 8919.	1.6	20
110	Poly (3,4-ethylenedioxythiophene): polystyrene sulfonate (PEDOT:PSS) Zr(IV) phosphate composite cation exchanger : sol-gel synthesis and physicochemical characterization. <i>Ionics</i> , 2015, 21, 1063-1071.	1.2	19
111	Easy, operable ionic polymer metal composite actuator based on a platinum-coated sulfonated poly(vinyl alcohol)-polyaniline composite membrane. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	19
112	Soft actuator based on Kraton with GO/Ag/Pani composite electrodes for robotic applications. <i>Materials Research Express</i> , 2017, 4, 115701.	0.8	19
113	Bilayered ZnO/Nb <sub>2</sub> O <sub>5</sub> photoanode for dye sensitized solar cell. <i>International Journal of Modern Physics B</i> , 2018, 32, 1840046.	1.0	19
114	Layer-by-layer deposition of TiO <sub>2</sub> -ZrO <sub>2</sub> electrode sensitized with Pandan leaves: natural dye-sensitized solar cell. <i>Materials for Renewable and Sustainable Energy</i> , 2019, 8, 1.	1.5	19
115	Enhanced production of Î³-valerolactone from levulinic acid hydrogenation-cyclization over ZrxCe1-xO2 based Cu catalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26445-26457.	3.8	19
116	Kinetics of Cross-Linking Reaction of Epoxy Resin with Hydroxyapatite-Functionalized Layered Double Hydroxides. <i>Polymers</i> , 2020, 12, 1157.	2.0	19
117	Assessment of sulfonated homo and co-polyimides incorporated polysulfone ultrafiltration blend membranes for effective removal of heavy metals and proteins. <i>Scientific Reports</i> , 2020, 10, 7049.	1.6	19
118	Titanium dioxide nanotubes conjugated with quercetin function as an effective anticancer agent by inducing apoptosis in melanoma cells. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 721-734.	5.3	19
119	Study and preparation of highly water-stable polyacrylonitrile-kraton-graphene composite membrane for bending actuator toward robotic application. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 1534-1546.	1.4	18
120	Light induced DNA-functionalized TiO <sub>2</sub> nanocrystalline interface: Theoretical and experimental insights towards DNA damage detection. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 188, 159-176.	1.7	18
121	Design and development of non-perfluorinated ionic polymer metal composite-based flexible link manipulator for robotics assembly. <i>Polymer Composites</i> , 2019, 40, 2582-2593.	2.3	18
122	Biogenic Synthesis of Selenium Nanoparticles with Edible Mushroom Extract: Evaluation of Cytotoxicity on Prostate Cancer Cell Lines and Their Antioxidant, and Antibacterial Activity. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 6629-6639.	1.0	18
123	A mercury ion selective electrode based on poly-o-toluidine Zr(IV) tungstate composite membrane. <i>Journal of Electroanalytical Chemistry</i> , 2014, 713, 125-130.	1.9	17
124	Fabrication of a silver nano powder embedded kraton polymer actuator and its characterization. <i>RSC Advances</i> , 2015, 5, 91564-91573.	1.7	17
125	Chemical sensing platform for the Zn <sup>2+</sup> ions based on poly(o-anisidine-co-methyl anthranilate) copolymer composites and their environmental remediation in real samples. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27899-27911.	2.7	17
126	Experimental and Computational Studies of a Laccase Immobilized ZnONPs/GO-Based Electrochemical Enzymatic Biosensor for the Detection of Sucralose in Food Samples. <i>Food Analytical Methods</i> , 2020, 13, 2014-2027.	1.3	17



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127	Recent development of aqueous zinc-ion battery cathodes and future challenges: Review. International Journal of Energy Research, 2022, 46, 13152-13177.	2.2	17
128	Nicotinic acid adsorption thermodynamics study on carboxymethyl cellulose Ce(IV) molybdophosphate composite cation-exchanger. Journal of Thermal Analysis and Calorimetry, 2013, 111, 831-838.	2.0	16
129	Fabrication of bioanode by using electrically conducting polythiophene via entrapment technique. Korean Journal of Chemical Engineering, 2016, 33, 120-125.	1.2	16
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