

# Muhammad Nawaz Tahir

## List of Publications by Citations

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189  
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192  
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6,895  
ext. citations

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L-index

#	Paper	IF	Citations
189	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18753-18808	13	446
188	Extraordinary Performance of Carbon-Coated Anatase TiO as Sodium-Ion Anode. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501489	21.8	174
187	Hydrogen peroxide sensing with horseradish peroxidase-modified polymer single conical nanochannels. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1673-80	7.8	151
186	Solids Go Bio: Inorganic Nanoparticles as Enzyme Mimics. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 1906-1915	2.3	132
185	Biogenic synthesis of palladium nanoparticles using <i>Pulicaria glutinosa</i> extract and their catalytic activity towards the Suzuki coupling reaction. <i>Dalton Transactions</i> , <b>2014</b> , 43, 9026-31	4.3	128
184	Au@MnO nanoflowers: hybrid nanocomposites for selective dual functionalization and imaging. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3976-80	16.4	128
183	Green synthesis of silver nanoparticles mediated by <i>Pulicaria glutinosa</i> extract. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8, 1507-16	7.3	117
182	Co-expression and functional interaction of silicatein with galectin: matrix-guided formation of siliceous spicules in the marine demosponge <i>Suberites domuncula</i> . <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 12001-9	5.4	112
181	Metal ion affinity-based biomolecular recognition and conjugation inside synthetic polymer nanopores modified with iron-terpyridine complexes. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17307-14	16.4	111
180	Facile synthesis and characterization of functionalized, monocrystalline rutile TiO <sub>2</sub> nanorods. <i>Langmuir</i> , <b>2006</b> , 22, 5209-12	4	109
179	Formation of layered titania and zirconia catalysed by surface-bound silicatein. <i>Chemical Communications</i> , <b>2005</b> , 5533-5	5.8	106
178	Green Approach for the Effective Reduction of Graphene Oxide Using <i>Salvadora persica</i> L. Root (Miswak) Extract. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 987	5	105
177	Facile synthesis and characterization of monocrystalline cubic ZrO <sub>2</sub> nanoparticles. <i>Solid State Sciences</i> , <b>2007</b> , 9, 1105-1109	3.4	104
176	Molybdenum trioxide nanoparticles with intrinsic sulfite oxidase activity. <i>ACS Nano</i> , <b>2014</b> , 8, 5182-9	16.7	101
175	Controlled synthesis of linear and branched Au@ZnO hybrid nanocrystals and their photocatalytic properties. <i>Nanoscale</i> , <b>2013</b> , 5, 9944-9	7.7	97
174	COVID-19: A Global Challenge with Old History, Epidemiology and Progress So Far. <i>Molecules</i> , <b>2020</b> , 26,	4.8	94
173	Reactive polymers: a versatile toolbox for the immobilization of functional molecules on TiO <sub>2</sub> nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 908-12	16.4	93

172	Monitoring the formation of biosilica catalysed by histidine-tagged silicatein. <i>Chemical Communications</i> , <b>2004</b> , 2848-9	5.8	86
171	Overcoming the insolubility of molybdenum disulfide nanoparticles through a high degree of sidewall functionalization using polymeric chelating ligands. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 4809-15	16.4	85
170	Highly water-soluble magnetic iron oxide (FeO) nanoparticles for drug delivery: enhanced in vitro therapeutic efficacy of doxorubicin and MION conjugates. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 2874-2884	7.3	80
169	Influence of Binding-Site Density in Wet Bioadhesion. <i>Advanced Materials</i> , <b>2008</b> , 20, 3872-3876	24	78
168	Enzymatic production of biosilica glass using enzymes from sponges: basic aspects and application in nanobiotechnology (material sciences and medicine). <i>Die Naturwissenschaften</i> , <b>2007</b> , 94, 339-59	2	75
167	Highly soluble multifunctional MnO nanoparticles for simultaneous optical and MRI imaging and cancer treatment using photodynamic therapy. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8297		73
166	Genotoxic effects of zinc oxide nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 8931-8	7.7	72
165	Carbon-Coated Anatase TiO <sub>2</sub> Nanotubes for Li- and Na-Ion Anodes. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A3013-A3020	3.9	71
164	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. <i>Advanced Materials</i> , <b>2015</b> , 27, 7338-43	24	70
163	Biomolecular conjugation inside synthetic polymer nanopores via glycoprotein-lectin interactions. <i>Nanoscale</i> , <b>2011</b> , 3, 1894-903	7.7	69
162	Fabrication of a Silica Coating on Magnetic Fe <sub>2</sub> O <sub>3</sub> Nanoparticles by an Immobilized Enzyme. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3567-3573	9.6	69
161	Bioorganic/inorganic hybrid composition of sponge spicules: matrix of the giant spicules and of the comitalia of the deep sea hexactinellid <i>Monorhaphis</i> . <i>Journal of Structural Biology</i> , <b>2008</b> , 161, 188-203	3.4	68
160	Liquid crystalline phases from polymer functionalised semiconducting nanorods. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3050		67
159	From single molecules to nanoscopically structured functional materials: Au nanocrystal growth on TiO <sub>2</sub> nanowires controlled by surface-bound silicatein. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 4803-9	16.4	67
158	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. <i>Dalton Transactions</i> , <b>2018</b> , 47, 11988-12010	4.3	66
157	Synthesis, characterization, and hierarchical organization of tungsten oxide nanorods: spreading driven by Marangoni flow. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17566-75	16.4	66
156	Superparamagnetic gamma-Fe <sub>2</sub> O <sub>3</sub> nanoparticles with tailored functionality for protein separation. <i>Chemical Communications</i> , <b>2007</b> , 4677-9	5.8	62
155	<i>Pulicaria glutinosa</i> plant extract: a green and eco-friendly reducing agent for the preparation of highly reduced graphene oxide. <i>RSC Advances</i> , <b>2014</b> , 4, 24119-24125	3.7	59

154	Hematite and Magnetite Nanostructures for Green and Sustainable Energy Harnessing and Environmental Pollution Control: A Review. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 1292-1311	4	59
153	Intrinsic superoxide dismutase activity of MnO nanoparticles enhances the magnetic resonance imaging contrast. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7423-7428	7.3	54
152	A Step into the Future: Applications of Nanoparticle Enzyme Mimics. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 9703-9713	4.8	53
151	Fractal-related assembly of the axial filament in the demosponge <i>Suberites domuncula</i> : relevance to biomineralization and the formation of biogenic silica. <i>Biomaterials</i> , <b>2007</b> , 28, 4501-11	15.6	53
150	Pathogen-Mimicking MnO Nanoparticles for Selective Activation of the TLR9 Pathway and Imaging of Cancer Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3717-3725	15.6	51
149	[emailprotected]2O3 Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1134-1146	9.6	49
148	Enzyme-Mediated Deposition of a TiO2 Coating onto Biofunctionalized WS2 Chalcogenide Nanotubes. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 285-291	15.6	48
147	Synthesis, biological evaluation and molecular docking of N-phenyl thiosemicarbazones as urease inhibitors. <i>Bioorganic Chemistry</i> , <b>2015</b> , 61, 51-7	5.1	47
146	Fabrication of single cylindrical Au-coated nanopores with non-homogeneous fixed charge distribution exhibiting high current rectifications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12486-94	9.5	47
145	<i>Pulicaria glutinosa</i> extract: a toolbox to synthesize highly reduced graphene oxide-silver nanocomposites. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 1131-42	6.3	46
144	dsRNA-functionalized multifunctional gamma-Fe2O3 nanocrystals: a tool for targeting cell surface receptors. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 4748-52	16.4	46
143	Glycine-functionalized copper(ii) hydroxide nanoparticles with high intrinsic superoxide dismutase activity. <i>Nanoscale</i> , <b>2017</b> , 9, 3952-3960	7.7	45
142	Double-stranded RNA polyinosinic-polycytidylic acid immobilized onto gamma-Fe2O3 nanoparticles by using a multifunctional polymeric linker. <i>Small</i> , <b>2007</b> , 3, 1374-8	11	44
141	Phase separated Cu@Fe3O4 heterodimer nanoparticles from organometallic reactants. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8605		42
140	Hierarchical assembly of TiO2 nanoparticles on WS2 nanotubes achieved through multifunctional polymeric ligands. <i>Small</i> , <b>2007</b> , 3, 829-34	11	42
139	Green synthesis of Pd@graphene nanocomposite: Catalyst for the selective oxidation of alcohols. <i>Arabian Journal of Chemistry</i> , <b>2016</b> , 9, 835-845	5.9	41
138	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707073	24	39
137	CeO nanorods with intrinsic urease-like activity. <i>Nanoscale</i> , <b>2018</b> , 10, 13074-13082	7.7	36

136	Bioinspired synthesis of multifunctional inorganic and bio-organic hybrid materials. <i>FEBS Journal</i> , <b>2012</b> , 279, 1737-49	5.7	35
135	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. <i>ACS Omega</i> , <b>2020</b> , 5, 1987-1996	5.9	34
134	Orientation and Dynamics of ZnO Nanorod Liquid Crystals in Electric Fields. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 1101-7	4.8	34
133	Particle size and morphology control of the negative thermal expansion material cubic zirconium tungstate. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2760		33
132	Synthesis and characterization of carbon coated sponge-like tin oxide (SnOx) films and their application as electrode materials in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 612-619	13	31
131	Design, characterization and evaluation of hydroxyethylcellulose based novel regenerable supersorbent for heavy metal ions uptake and competitive adsorption. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 102, 170-180	7.9	29
130	Advances in biogenic synthesis of palladium nanoparticles. <i>RSC Advances</i> , <b>2016</b> , 6, 60277-60286	3.7	29
129	Facile hydrothermal synthesis of crystalline Ta <sub>2</sub> O <sub>5</sub> nanorods, MTaO <sub>3</sub> (M = H, Na, K, Rb) nanoparticles, and their photocatalytic behaviour. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8033-8040	13	29
128	The 2P5Poligoadenylate synthetase in the lowest metazoa: isolation, cloning, expression and functional activity in the sponge <i>Lubomirskia baicalensis</i> . <i>Molecular Immunology</i> , <b>2008</b> , 45, 945-53	4.3	29
127	Functional Polymer-Opals from CoreShell Colloids. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 1987-1994	4.8	29
126	Polyacrylonitrile block copolymers for the preparation of a thin carbon coating around TiO <sub>2</sub> nanorods for advanced lithium-ion batteries. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 1693-700	4.8	28
125	Light induced charging of polymer functionalized nanorods. <i>Nano Letters</i> , <b>2010</b> , 10, 2812-6	11.5	28
124	Cellulose ether derivatives: a new platform for prodrug formation of fluoroquinolone antibiotics. <i>Cellulose</i> , <b>2015</b> , 22, 2011-2022	5.5	27
123	Structural and Optical Study of Ga <sup>3+</sup> Substitution in CuInS <sub>2</sub> Nanoparticles Synthesized by a One-Pot Facile Method. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 24670-24679	3.8	27
122	Precursor polymers for the carbon coating of Au@ZnO multipods for application as active material in lithium-ion batteries. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 1075-82	4.8	27
121	Enzymatic Synthesis and Surface Deposition of Tin Dioxide using Silicatein-III. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 5358-5365	9.6	27
120	Self-cleaning antimicrobial surfaces by bio-enabled growth of SnO <sub>2</sub> coatings on glass. <i>Nanoscale</i> , <b>2013</b> , 5, 3447-56	7.7	26
119	Hydrogen peroxide sensors for cellular imaging based on horse radish peroxidase reconstituted on polymer-functionalized TiO <sub>2</sub> nanorods. <i>Nanoscale</i> , <b>2011</b> , 3, 3907-14	7.7	26

118	Molecular camouflage: making use of protecting groups to control the self-assembly of inorganic Janus particles onto metal-chalcogenide nanotubes by Pearson hardness. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 12271-5	16.4	26
117	Reversible self-assembly of metal chalcogenide/metal oxide nanostructures based on Pearson hardness. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7578-82	16.4	26
116	Calixarene: A Versatile Material for Drug Design and Applications. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 2377-2388	3.3	26
115	Synthesis of Au, Ag, and Au-Ag Bimetallic Nanoparticles Using Extract and Their Catalytic Activity for the Reduction of 4-Nitrophenol. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	26
114	Plasmon-enhanced photocurrent in quasi-solid-state dye-sensitized solar cells by the inclusion of gold/silica core-shell nanoparticles in a TiO <sub>2</sub> photoanode. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12627-33	24	24
113	Reactive Polymers: A Versatile Toolbox for the Immobilization of Functional Molecules on TiO <sub>2</sub> Nanoparticles. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 922-926	3.6	24
112	A High-Performance Asymmetric Supercapacitor Based on Tungsten Oxide Nanoplates and Highly Reduced Graphene Oxide Electrodes. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 6973-6984	4.8	24
111	A highly reduced graphene oxide/ZrO <sub>x</sub> /MnCO <sub>3</sub> or Mn <sub>2</sub> O <sub>3</sub> nanocomposite as an efficient catalyst for selective aerial oxidation of benzylic alcohols. <i>RSC Advances</i> , <b>2017</b> , 7, 55336-55349	3.7	23
110	Multifunctional polymer-derivatized Fe <sub>3</sub> O <sub>4</sub> nanocrystals as a methodology for the biomagnetic separation of recombinant His-tagged proteins. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 2339-2344	2.8	23
109	Formation of Siliceous Spicules in Demosponges: Example <i>Suberites domuncula</i>	59-82	23
108	Silicatein conjugation inside nanoconfined geometries through immobilized NTA-Ni(II) chelates. <i>Chemical Communications</i> , <b>2013</b> , 49, 2210-2	5.8	22
107	Synthesis and functionalization of chalcogenide nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2338-2363	1.3	22
106	Potential biological role of laccase from the sponge <i>Suberites domuncula</i> as an antibacterial defense component. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 118-28	4	21
105	Monitoring Thiol-Ligand Exchange on Au Nanoparticle Surfaces. <i>Langmuir</i> , <b>2018</b> , 34, 1700-1710	4	21
104	Controlling phase formation in solids: rational synthesis of phase separated Co@Fe <sub>2</sub> O <sub>3</sub> heteroparticles and CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Chemical Communications</i> , <b>2011</b> , 47, 8898-900	5.8	21
103	One pot light assisted green synthesis, storage and antimicrobial activity of dextran stabilized silver nanoparticles. <i>Journal of Nanobiotechnology</i> , <b>2014</b> , 12, 53	9.4	20
102	Synthesis, characterization and functionalization of nearly mono-disperse copper ferrite Cu <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6909		20
101	Extended release and enhanced bioavailability of moxifloxacin conjugated with hydrophilic cellulose ethers. <i>Carbohydrate Polymers</i> , <b>2016</b> , 136, 1297-306	10.3	19

100	From Single Molecules to Nanoscopically Structured Materials: Self-Assembly of Metal Chalcogenide/Metal Oxide Nanostructures Based on the Degree of Pearson Hardness. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3534-3539	9.6	19
99	Hierarchical Ni@Fe <sub>2</sub> O <sub>3</sub> superparticles through epitaxial growth of Fe <sub>2</sub> O <sub>3</sub> nanorods on in situ formed Ni nanoplates. <i>Nanoscale</i> , <b>2016</b> , 8, 9548-55	7.7	18
98	Plant Extract Mediated Eco-Friendly Synthesis of Pd@Graphene Nanocatalyst: An Efficient and Reusable Catalyst for the Suzuki-Miyaura Coupling. <i>Catalysts</i> , <b>2017</b> , 7, 20	4	18
97	Overcoming the Insolubility of Molybdenum Disulfide Nanoparticles through a High Degree of Sidewall Functionalization Using Polymeric Chelating Ligands. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 4927-4933	3.6	18
96	Fabrication, characterization, thermal stability and nanoassemblies of novel pullulan-aspirin conjugates. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, S1597-S1603	5.9	17
95	Ni@Fe <sub>3</sub> O <sub>4</sub> heterodimers: controlled synthesis and magnetically recyclable catalytic application for dehalogenation reactions. <i>Nanoscale</i> , <b>2012</b> , 4, 4571-7	7.7	17
94	Low temperature synthesis of monodisperse nanoscaled ZrO <sub>2</sub> with a large specific surface area. <i>Dalton Transactions</i> , <b>2013</b> , 42, 432-40	4.3	17
93	Novel high-loaded, nanoparticulate and thermally stable macromolecular prodrug design of NSAIDs based on hydroxypropylcellulose. <i>Cellulose</i> , <b>2015</b> , 22, 461-471	5.5	16
92	Vanadia supported on nickel manganese oxide nanocatalysts for the catalytic oxidation of aromatic alcohols. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 52	5	16
91	Silicatein-mediated incorporation of titanium into spicules from the demosponge <i>Suberites domuncula</i> . <i>Cell and Tissue Research</i> , <b>2010</b> , 339, 429-36	4.2	16
90	<i>Capparis decidua</i> Edgew (Forssk.): A comprehensive review of its traditional uses, phytochemistry, pharmacology and nutraceutical potential. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 1901-1916	5.9	16
89	Solvothermal Preparation and Electrochemical Characterization of Cubic ZrO <sub>2</sub> Nanoparticles/Highly Reduced Graphene (HRG) based Nanocomposites. <i>Materials</i> , <b>2019</b> , 12,	3.5	15
88	Silica-coated Au@ZnO Janus particles and their stability in epithelial cells. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 1813-1822	7.3	15
87	Synthesis and Characterization of Cellulose Lipiates: A Novel Material for Adsorption onto Gold. <i>Polymer Bulletin</i> , <b>2006</b> , 57, 857-863	2.4	15
86	Facile hybridization of Ni@Fe <sub>2</sub> O <sub>3</sub> superparticles with functionalized reduced graphene oxide and its application as anode material in lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 478, 155-63	9.3	14
85	Methyl-substituted 2-aminothiazole based cobalt(II) and silver(I) complexes: synthesis, X-ray structures, and biological activities. <i>Turkish Journal of Chemistry</i> , <b>2019</b> , 43, 857-868	1	14
84	Stabilizing nanostructured lithium insertion materials via organic hybridization: A step forward towards high-power batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 852-860	8.9	14
83	CpG-DNA loaded multifunctional MnO nanoshuttles for TLR9-specific cellular cargo delivery, selective immune-activation and MRI. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8826		14

82	Synthesis of Hierarchically Grown ZnO@NT-WS <sub>2</sub> Nanocomposites. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 5382-5387	3.87	14
81	From Single Molecules to Nanoscopically Structured Functional Materials: Au Nanocrystal Growth on TiO <sub>2</sub> Nanowires Controlled by Surface-Bound Silicatein. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 4921-4927	3.6	14
80	The surface chemistry of iron oxide nanocrystals: surface reduction of Fe <sub>2</sub> O <sub>3</sub> to Fe <sub>3</sub> O <sub>4</sub> by redox-active catechol surface ligands. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 326-333	7.1	14
79	Structural and optical properties of Fe and Zn substituted CuInS <sub>2</sub> nanoparticles synthesized by a one-pot facile method. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 889-898	7.1	13
78	Hydroxypropylcellulose as a novel green reservoir for the synthesis, stabilization, and storage of silver nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 2079-88	7.3	13
77	Synthesis, characterization, crystal structures, enzyme inhibition, DNA binding, and electrochemical studies of zinc(II) complexes. <i>Journal of Coordination Chemistry</i> , <b>2014</b> , 67, 1290-1308	1.6	13
76	Chemical mimicry: hierarchical 1D TiO <sub>2</sub> @ZrO <sub>2</sub> core-shell structures reminiscent of sponge spicules by the synergistic effect of silicatein-B and silintaphin-1. <i>Langmuir</i> , <b>2011</b> , 27, 5464-71	4	13
75	Soluble IF-ReS <sub>2</sub> nanoparticles by surface functionalization with terpyridine ligands. <i>Langmuir</i> , <b>2011</b> , 27, 385-91	4	13
74	Reversible Selbstorganisation von Metallchalkogenid-Metalloxid- Nanostrukturen basierend auf dem Pearson-Konzept. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7741-7745	3.6	13
73	High-performance TiO <sub>2</sub> nanoparticle/DOPA-polymer composites. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 1129-37	4.8	12
72	Macromolecular prodrugs of aspirin with HPMC: A nano particulate drug design, characterization, and pharmacokinetic studies. <i>Macromolecular Research</i> , <b>2011</b> , 19, 1296-1302	1.9	12
71	IF-ReS <sub>2</sub> with Covalently Linked Porphyrin Antennae. <i>Israel Journal of Chemistry</i> , <b>2010</b> , 50, 500-505	3.4	12
70	An efficient acetylation of dextran using in situ activated acetic anhydride with iodine. <i>Journal of the Serbian Chemical Society</i> , <b>2010</b> , 75, 165-173	0.9	12
69	Facile synthesis of Pd@graphene nanocomposites with enhanced catalytic activity towards Suzuki coupling reaction. <i>Scientific Reports</i> , <b>2020</b> , 10, 11728	4.9	12
68	Multiple cross-linked hydroxypropylcellulose-succinate-β-alicylate: prodrug design, characterization, stimuli responsive swelling-deswelling and sustained drug release. <i>RSC Advances</i> , <b>2015</b> , 5, 43440-43448	3.7	11
67	Efficient aerial oxidation of different types of alcohols using ZnO nanoparticle-MnCO <sub>3</sub> -graphene oxide composites. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5718	3.1	11
66	Amine functionalized ZrO nanoparticles as biocompatible and luminescent probes for ligand specific cellular imaging. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2371-2377	7.3	11
65	Hydroxypropylcellulose-aceclofenac conjugates: high covalent loading design, structure characterization, nano-assemblies and thermal kinetics. <i>Cellulose</i> , <b>2013</b> , 20, 717-725	5.5	11



64	HPMC-salicylate conjugates as macromolecular prodrugs: Design, characterization, and nano-rods formation. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 4202-4208	2.5	11
63	Translational and rotational diffusion of gold nanorods near a wall. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 064710	3.9	10
62	Functionalization of TiO <sub>2</sub> Nanoparticles with Semiconducting Polymers Containing a Photocleavable Anchor Group and Separation via Irradiation Afterward. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 604-613	2.6	10
61	A Generalized Method for High-Speed Fluorination of Metal Oxides by Spark Plasma Sintering Yields Ta O F and TaO F with High Photocatalytic Activity for Oxygen Evolution from Water. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007434	24	10
60	Synthesis and Comparative Catalytic Study of Zirconia-MnCO or -MnO for the Oxidation of Benzylic Alcohols. <i>ChemistryOpen</i> , <b>2017</b> , 6, 112-120	2.3	9
59	A Facile Synthesis of ZrO <sub>x</sub> -MnCO <sub>3</sub> /Graphene Oxide (GRO) Nanocomposites for the Oxidation of Alcohols using Molecular Oxygen under Base Free Conditions. <i>Catalysts</i> , <b>2019</b> , 9, 759	4	9
58	Succinate-bonded pullulan: An efficient and reusable super-sorbent for cadmium-uptake from spiked high-hardness groundwater. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 37, 51-8	6.4	9
57	Iron Oxide Superparticles with Enhanced MRI Performance by Solution Phase Epitaxial Growth. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4277-4288	9.6	9
56	Humidity-sensing and DNA-binding ability of bis(4-benzylpiperazine-1-carbodithioato-k <sup>2</sup> S,S')nickel(II). <i>Journal of Coordination Chemistry</i> , <b>2015</b> , 68, 295-307	1.6	9
55	Solvothermal Synthesis of Molybdenum Tungsten Oxides and Their Application for Photoelectrochemical Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 12641-12649	8.3	9
54	One-pot thermolysis synthesis of CuInS <sub>2</sub> nanoparticles with chalcopyrite-wurtzite polytypism structure. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 8960-8972	2.1	8
53	Solid State Fluorination on the Minute Scale: Synthesis of WO <sub>3</sub> ·xH <sub>2</sub> O with Photocatalytic Activity. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909051	15.6	8
52	Molecular Camouflage: Making Use of Protecting Groups To Control the Self-Assembly of Inorganic Janus Particles onto Metal Chalcogenide Nanotubes by Pearson Hardness. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12479-12483	3.6	7
51	Synthesis and immobilization of molecular switches onto titaniumdioxide nanowires. <i>Polyhedron</i> , <b>2009</b> , 28, 1728-1733	2.7	7
50	An efficient esterification of pullulan using carboxylic acid anhydrides activated with iodine. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2010</b> , 75, 133-143		7
49	Selective Synthesis of Monodisperse CoO Nanooctahedra as Catalysts for Electrochemical Water Oxidation. <i>Langmuir</i> , <b>2020</b> , 36, 13804-13816	4	7
48	Structural analysis of Gossypium hirsutum fibers grown under greenhouse and hydroponic conditions. <i>Journal of Structural Biology</i> , <b>2016</b> , 194, 292-302	3.4	7
47	Controlling the Morphology of Au-Pd Heterodimer Nanoparticles by Surface Ligands. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 13640-13652	5.1	7

46	Surface Defects as a Tool to Solubilize and Functionalize WS <sub>2</sub> Nanotubes. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 2190-2194	2.3	6
45	Benzyl Alcohol Assisted Synthesis and Characterization of Highly Reduced Graphene Oxide (HRG)@ZrO <sub>2</sub> Nanocomposites. <i>ChemistrySelect</i> , <b>2017</b> , 2, 3078-3083	1.8	6
44	Ultrastrong composites from dopamine modified-polymer-infiltrated colloidal crystals. <i>Materials Horizons</i> , <b>2015</b> , 2, 434-441	14.4	6
43	Synthesis of hierarchically organized Fe <sub>2</sub> O <sub>3</sub> nanostructures for the photocatalytic degradation of methylene blue. <i>Emergent Materials</i> , <b>2020</b> , 3, 605-612	3.5	6
42	Facile one-pot synthesis of polytypic (wurtzite/halcopyrite) CuGaS <sub>2</sub> . <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	6
41	Orientation of polymer functionalized nanorods in thin films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 6845-9	1.3	6
40	Facile Sonochemical Preparation of Au-ZrO <sub>2</sub> Nanocatalyst for the Catalytic Reduction of 4-Nitrophenol. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 503	2.6	5
39	Graphene-type sheets of Nb(1-x)W(x)S <sub>2</sub> : synthesis and in situ functionalization. <i>Dalton Transactions</i> , <b>2013</b> , 42, 5292-7	4.3	5
38	Extract-Mediated Eco-Friendly Preparation of TiO Nanoparticles for Photocatalytic Degradation of Methylene Blue and Methyl Orange.. <i>ACS Omega</i> , <b>2022</b> , 7, 4812-4820	3.9	5
37	Anisotropic nanoparticles: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 191, 229-254	3.6	5
36	Quince Seed Mucilage: A Stimuli-Responsive/Smart Biopolymer. <i>Polymers and Polymeric Composites</i> , <b>2019</b> , 127-148	0.6	4
35	One-pot synthesis, crystal structure and antimicrobial activity of 6-benzyl-11-(p-tolyl)-6H-indolo[2,3-b]quinoline. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1210, 128035	3.4	4
34	Localization and characterization of ferritin in Demospongiae: a possible role on spiculogenesis. <i>Marine Drugs</i> , <b>2014</b> , 12, 4659-76	6	4
33	Multi-photon imaging of amine-functionalized silica nanoparticles. <i>Nanoscale</i> , <b>2012</b> , 4, 4680-6	7.7	4
32	Growth of fibrous aggregates of silica nanoparticles: Fibre growth by mimicking the biogenic silica patterning processes. <i>Soft Matter</i> , <b>2009</b> , 5, 3657	3.6	4
31	Synthesis, antibacterial activity and docking studies of chloroacetamide derivatives. <i>European Journal of Chemistry</i> , <b>2019</b> , 10, 358-366	0.6	4
30	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. <i>Nanostructure Science and Technology</i> , <b>2020</b> , 195-278	0.9	4
29	Fabrication of potential macromolecular prodrugs of aspirin and diclofenac with dextran. <i>Pakistan Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 24, 575-81	0.4	4

28	Janus and patchy nanoparticles: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 191, 117-139	3.6	3
27	1,3-Dimeth-oxy-2,3-dihydro-1H-isoindole-2-carbothio-amide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 65, o41		3
26	Non-aqueous synthesis of AuCu@ZnO alloy-semiconductor heteroparticles for photocatalytic degradation of organic dyes. <i>Journal of Saudi Chemical Society</i> , <b>2021</b> , 25, 101210	4.3	3
25	From Single Molecules to Nanostructured Functional Materials: Formation of a Magnetic Foam Catalyzed by [email[protected]]xO Heterodimers. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 1050-1057	5.6	3
24	Hydroxypropylcellulose-flurbiprofen conjugates: design, characterization, anti-inflammatory activity and enhanced bioavailability. <i>Saudi Pharmaceutical Journal</i> , <b>2020</b> , 28, 869-875	4.4	2
23	Block copolymers from ionic liquids for the preparation of thin carbonaceous shells. <i>Beilstein Journal of Organic Chemistry</i> , <b>2017</b> , 13, 1693-1701	2.5	2
22	Advances in Graphene/Inorganic Nanoparticle Composites for Catalytic Applications.. <i>Chemical Record</i> , <b>2022</b> , e202100274	6.6	2
21	Flurbiprofen conjugates based on hydroxyethylcellulose: Synthesis, characterization, pharmaceutical and pharmacological applications. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 2101-2109	5.9	2
20	Sodium hydroxyethylcellulose adipate: An efficient and reusable sorbent for cadmium uptake from spiked high-hardness ground water. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 2766-2777	5.9	2
19	High-throughput synthesis of CeO nanoparticles for transparent nanocomposites repelling <i>Pseudomonas aeruginosa</i> biofilms.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3935	4.9	2
18	Design, characterization and enhanced bioavailability of hydroxypropylcellulose-naproxen conjugates. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 5717-5723	5.9	1
17	Frontispiece: A Step into the Future: Applications of Nanoparticle Enzyme Mimics. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24,	4.8	1
16	Rational assembly and dual functionalization of Au@MnO heteroparticles on TiO <sub>2</sub> nanowires. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 2031-2036	3.6	1
15	Growth Mechanism and Surface Functionalization of Metal Chalcogenides Nanostructures <b>2014</b> , 83-121		1
14	Gold-surface binding of molecular switches studied by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , <b>2012</b> , 205, 63-67	0.8	1
13	Bio-nano: Theranostic at Cellular Level. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , <b>2018</b> , 85-170.5		1
12	High-speed solid state fluorination of NbO yields NbOF and NbOF with photocatalytic activity for oxygen evolution from water. <i>Dalton Transactions</i> , <b>2021</b> , 50, 6528-6538	4.3	1
11	SERS and EC-SERS detection of local anesthetic procaine using Pd loaded highly reduced graphene oxide nanocomposite substrate.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 278, 121381	4.4	1

10	Quince Seed Mucilage: A Stimuli-Responsive/Smart Biopolymer. <i>Polymers and Polymeric Composites</i> , <b>2019</b> , 1-22	0.6	o
9	Engineered multifunctional nanotools for biological applications. <i>Methods in Molecular Biology</i> , <b>2011</b> , 790, 203-14	1.4	o
8	Pyrene Functionalized Highly Reduced Graphene Oxide-palladium Nanocomposite: A Novel Catalyst for the Mizoroki-Heck Reaction in Water.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 872366	5	o
7	Functionalized Magnetic Nanoparticles for Selective Targeting of Cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1241, 1		
6	Functionalized Magnetic Nanoparticles for Selective Targeting of Cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1140, 120101		
5	Synthetic Approaches to Functionalized Chalcogenide Nanotubes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2008</b> , 634, 2093-2093	1.3	
4	From Single Molecules to Nanoscopically Structured Functional Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 988, 1		
3	Cell Specific Targeting of Multifunctional Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Through Surface Binding of dsDNA. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1032, 1		
2	Gold-surface binding of molecular switches studied by Mössbauer spectroscopy <b>2013</b> , 211-215		
1	Esterification of Salicylic acid with Succinylated Dextran Using ZrOCl <sub>2</sub> .8H <sub>2</sub> O over MCM-41: A Novel Strategy to Design Polysaccharide-Based Macromolecular Prodrugs. <i>Arabian Journal for Science and Engineering</i> , <b>2021</b> , 46, 5583-5591	2.5	