

Dalaver H Anjum

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226
papers

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h-index

95
g-index

240
ext. papers

11,905
ext. citations

7.2
avg, IF

6.53
L-index

#	Paper	IF	Citations
226	Plasma-Assisted Synthesis of NiCoP for Efficient Overall Water Splitting. <i>Nano Letters</i> , 2016 , 16, 7718-7725	12.5	812
225	Effect of Postetch Annealing Gas Composition on the Structural and Electrochemical Properties of Ti ₂ CT _x MXene Electrodes for Supercapacitor Applications. <i>Chemistry of Materials</i> , 2015 , 27, 5314-5323	9.6	535
224	Amorphous NiFe-OH/NiFeP Electrocatalyst Fabricated at Low Temperature for Water Oxidation Applications. <i>ACS Energy Letters</i> , 2017 , 2, 1035-1042	20.1	369
223	A highly selective copper-indium bimetallic electrocatalyst for the electrochemical reduction of aqueous CO ₂ to CO. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2146-50	16.4	338
222	Polyglutamine disruption of the huntingtin exon 1 N terminus triggers a complex aggregation mechanism. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 380-9	17.6	336
221	MXenes stretch hydrogel sensor performance to new limits. <i>Science Advances</i> , 2018 , 4, eaat0098	14.3	334
220	Atomic layer deposition of SnO ₂ on MXene for Li-ion battery anodes. <i>Nano Energy</i> , 2017 , 34, 249-256	17.1	307
219	H ₂ O ₂ assisted room temperature oxidation of Ti ₂ C MXene for Li-ion battery anodes. <i>Nanoscale</i> , 2016 , 8, 7580-7	7.7	287
218	Direct Chemical Synthesis of MnO ₂ Nanowhiskers on Transition-Metal Carbide Surfaces for Supercapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18806-14	9.5	256
217	Aqueous Zinc-Ion Storage in MoS ₂ by Tuning the Intercalation Energy. <i>Nano Letters</i> , 2019 , 19, 3199-3206	11.5	223
216	Ultraporous Films with Uniform Nanochannels by Block Copolymer Micelles Assembly. <i>Macromolecules</i> , 2010 , 43, 8079-8085	5.5	182
215	Enhanced photocatalytic hydrogen evolution from organic semiconductor heterojunction nanoparticles. <i>Nature Materials</i> , 2020 , 19, 559-565	27	171
214	Nanostructured cobalt sulfide-on-fiber with tunable morphology as electrodes for asymmetric hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16190-16198	13	161
213	The structure and binding mode of citrate in the stabilization of gold nanoparticles. <i>Nature Chemistry</i> , 2017 , 9, 890-895	17.6	158
212	Spin-cast bulk heterojunction solar cells: a dynamical investigation. <i>Advanced Materials</i> , 2013 , 25, 1923-924		154
211	The temperature-dependent microstructure of PEDOT/PSS films: insights from morphological, mechanical and electrical analyses. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9903-9910	7.1	140
210	Polymer Solar Cells with Efficiency >10% Enabled via a Facile Solution-Processed Al-Doped ZnO Electron Transporting Layer. <i>Advanced Energy Materials</i> , 2015 , 5, 1500204	21.8	132

209	Hollow Au@Pd and Au@Pt core-shell nanoparticles as electrocatalysts for ethanol oxidation reactions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25003		126
208	Phosphine plasma activation of γ -Fe ₂ O ₃ for high energy asymmetric supercapacitors. <i>Nano Energy</i> , 2018 , 49, 155-162	17.1	123
207	Sn surface-enriched Pt ₃ Sn bimetallic nanoparticles as a selective and stable catalyst for propane dehydrogenation. <i>Journal of Catalysis</i> , 2014 , 320, 52-62	7.3	116
206	Molybdenum carbide-carbon nanocomposites synthesized from a reactive template for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10548-10556	13	114
205	Dendritic Tip-on Polytriazine-Based Carbon Nitride Photocatalyst with High Hydrogen Evolution Activity. <i>Chemistry of Materials</i> , 2015 , 27, 8237-8247	9.6	108
204	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. <i>Nature Materials</i> , 2021 , 20, 378-384	27	108
203	Efficient inverted bulk-heterojunction solar cells from low-temperature processing of amorphous ZnO buffer layers. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13321	13	101
202	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2528-2538	7.1	100
201	Surface Passivation of MoO ₃ Nanorods by Atomic Layer Deposition toward High Rate Durable Li Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13154-63	9.5	91
200	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5780-5784	16.4	89
199	A novel strategy for the synthesis of highly stable ternary SiO _x composites for Li-ion-battery anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15969-15974	13	89
198	The Effect of Residual Palladium Catalyst Contamination on the Photocatalytic Hydrogen Evolution Activity of Conjugated Polymers. <i>Advanced Energy Materials</i> , 2018 , 8, 1802181	21.8	89
197	Ni ₃ M ₂ D (M = Sn, Ti, W) Catalysts Prepared by a Dry Mixing Method for Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2016 , 6, 2852-2866	13.1	88
196	Hydrogen production by tuning the photonic band gap with the electronic band gap of TiO ₂ . <i>Scientific Reports</i> , 2013 , 3, 2849	4.9	86
195	Edge stabilization in reduced-dimensional perovskites. <i>Nature Communications</i> , 2020 , 11, 170	17.4	79
194	Coexistence of plasmonic and magnetic properties in Au ₈₉ Fe ₁₁ nanoalloys. <i>Nanoscale</i> , 2013 , 5, 5611-9	7.7	77
193	Nb effect in the nickel oxide-catalyzed low-temperature oxidative dehydrogenation of ethane. <i>Journal of Catalysis</i> , 2012 , 285, 292-303	7.3	74
192	Progress in Poly (3-Hexylthiophene) Organic Solar Cells and the Influence of Its Molecular Weight on Device Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1801001	21.8	72

191	Biodegradable Magnetic Silica@Iron Oxide Nanovectors with Ultra-Large Mesopores for High Protein Loading, Magneto-thermal Release, and Delivery. <i>Journal of Controlled Release</i> , 2017 , 259, 187-194	11.7	69
190	Controlled Surface Segregation Leads to Efficient Coke-Resistant Nickel/Platinum Bimetallic Catalysts for the Dry Reforming of Methane. <i>ChemCatChem</i> , 2015 , 7, 819-829	5.2	68
189	Mechanistic Insight into the Stability of HfO ₂ -Coated MoS ₂ Nanosheet Anodes for Sodium Ion Batteries. <i>Small</i> , 2015 , 11, 4341-50	11	67
188	Biodegradable Oxamide-Phenylene-Based Mesoporous Organosilica Nanoparticles with Unprecedented Drug Payloads for Delivery in Cells. <i>Chemistry - A European Journal</i> , 2016 , 22, 14806-14811	11.8	67
187	A scalable synthesis of highly stable and water dispersible Ag ₄₄ (SR) ₃₀ nanoclusters. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10148	13	66
186	Surface-Bound Ligands Modulate Chemoselectivity and Activity of a Bimetallic Nanoparticle Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 2529-2533	13.1	64
185	Ni-Sn-Supported ZrO Catalysts Modified by Indium for Selective CO Hydrogenation to Methanol. <i>ACS Omega</i> , 2018 , 3, 3688-3701	3.9	64
184	Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing. <i>Advanced Functional Materials</i> , 2016 , 26, 2371-2378	15.6	60
183	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. <i>Nature Communications</i> , 2018 , 9, 3132	17.4	60
182	Synthesis of tantalum carbide and nitride nanoparticles using a reactive mesoporous template for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12606	13	60
181	Enzymatically degradable hybrid organic-inorganic bridged silsesquioxane nanoparticles for in vitro imaging. <i>Nanoscale</i> , 2015 , 7, 15046-50	7.7	58
180	Photocatalysis with chromium-doped TiO ₂ : bulk and surface doping. <i>ChemSusChem</i> , 2014 , 7, 1361-71	8.3	56
179	Droop-free Al _x Ga _{1-x} N/AlyGa _{1-y} N quantum-disks-in-nanowires ultraviolet LED emitting at 337 nm on metal/silicon substrates. <i>Optics Express</i> , 2017 , 25, 1381-1390	3.3	54
178	Determination of band offsets at GaN/single-layer MoS ₂ heterojunction. <i>Applied Physics Letters</i> , 2016 , 109, 032104	3.4	52
177	Ni ₃ Al mixed oxide catalysts for the low temperature oxidative dehydrogenation of ethane to ethylene. <i>Journal of Catalysis</i> , 2015 , 329, 291-306	7.3	49
176	Addition of the Lewis Acid Zn(CF ₃) ₂ Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm ² V ⁻¹ s ⁻¹ . <i>Advanced Materials</i> , 2019 , 31, e1900871	24	48
175	Effect of hydrofluoric acid concentration on the evolution of photoluminescence characteristics in porous silicon nanowires prepared by Ag-assisted electroless etching method. <i>Journal of Applied Physics</i> , 2012 , 112, 033502	2.5	48
174	Band Alignment at GaN/Single-Layer WSe ₂ Interface. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9110-9117	11.7	47

173	Liquid phase exfoliation of MoS ₂ and WS ₂ in aqueous ammonia and their application in highly efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5259-5264	7.1	46
172	Gold Nanoparticles Supported on Fibrous Silica Nanospheres (KCC-1) as Efficient Heterogeneous Catalysts for CO Oxidation. <i>ChemCatChem</i> , 2016 , 8, 1671-1678	5.2	45
171	Reactive surface organometallic complexes observed using dynamic nuclear polarization surface enhanced NMR spectroscopy. <i>Chemical Science</i> , 2017 , 8, 284-290	9.4	44
170	Synergetic Effects Leading to Coke-Resistant NiCo Bimetallic Catalysts for Dry Reforming of Methane. <i>ChemCatChem</i> , 2015 , 7, 427-433	5.2	44
169	Tailoring ruthenium exposure to enhance the performance of fcc platinum@ruthenium core-shell electrocatalysts in the oxygen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16169-78	7.6	44
168	Evaluating the potential of superhydrophobic nanoporous alumina membranes for direct contact membrane distillation. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 723-732	9.3	42
167	Engineering Hydrophobic Organosilica Nanoparticle-Doped Nanofibers for Enhanced and Fouling Resistant Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1737-1745	9.5	41
166	Green synthesis of Ni-Nb oxide catalysts for low-temperature oxidative dehydrogenation of ethane. <i>ChemSusChem</i> , 2015 , 8, 1254-63	8.3	41
165	Porous Porphyrin-Based Organosilica Nanoparticles for NIR Two-Photon Photodynamic Therapy and Gene Delivery in Zebrafish. <i>Advanced Functional Materials</i> , 2018 , 28, 1800235	15.6	41
164	Unraveling the Order and Disorder in Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate) Nanofilms. <i>Macromolecules</i> , 2015 , 48, 5688-5696	5.5	40
163	Photoresponsive Bridged Silsesquioxane Nanoparticles with Tunable Morphology for Light-Triggered Plasmid DNA Delivery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24993-7	9.5	40
162	Mesoporous Reduced Graphene Oxide as a High Capacity Cathode for Aluminum Batteries. <i>Small</i> , 2018 , 14, e1803584	11	39
161	Periodic Mesoporous Organosilica Nanoparticles with Controlled Morphologies and High Drug/Dye Loadings for Multicargo Delivery in Cancer Cells. <i>Chemistry - A European Journal</i> , 2016 , 22, 9607-15	4.8	38
160	Microwave-synthesized tin oxide nanocrystals for low-temperature solution-processed planar junction organo-halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7759-7763	13	37
159	Cobalt and sulfur co-doped nano-size TiO ₂ for photodegradation of various dyes and phenol. <i>Journal of Environmental Sciences</i> , 2015 , 37, 100-9	6.4	37
158	Effect of rapid thermal annealing on strain in ultrathin strained silicon on insulator layers. <i>Applied Physics Letters</i> , 2003 , 83, 875-877	3.4	37
157	GaN/AlGaN multiple quantum wells grown on transparent and conductive (-201)-oriented EGa ₂ O ₃ substrate for UV vertical light emitting devices. <i>Applied Physics Letters</i> , 2018 , 113, 082102	3.4	36
156	Revealing a room temperature ferromagnetism in cadmium oxide nanoparticles: an experimental and first-principles study. <i>RSC Advances</i> , 2015 , 5, 33233-33238	3.7	35

155	Effects of oxidizing medium on the composition, morphology and optical properties of copper oxide nanoparticles produced by pulsed laser ablation. <i>Applied Surface Science</i> , 2013 , 286, 149-155	6.7	35
154	Kinetics on NiZn Bimetallic Catalysts for Hydrogen Evolution via Selective Dehydrogenation of Methylcyclohexane to Toluene. <i>ACS Catalysis</i> , 2017 , 7, 1592-1600	13.1	34
153	Impact of N-plasma and Ga-irradiation on MoS ₂ layer in molecular beam epitaxy. <i>Applied Physics Letters</i> , 2017 , 110, 012101	3.4	34
152	Flux-assisted synthesis of SnNb ₂ O ₆ for tuning photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10762-9	3.6	34
151	Effect of Precursor Ligands and Oxidation State in the Synthesis of Bimetallic Nano-Alloys. <i>Chemistry of Materials</i> , 2015 , 27, 4134-4141	9.6	34
150	Highly stable thin film transistors using multilayer channel structure. <i>Applied Physics Letters</i> , 2015 , 106, 103505	3.4	33
149	Porous carbon as electrode material in direct ethanol fuel cells (DEFCs) synthesized by the direct carbonization of MOF-5. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1545-1555	2.6	33
148	Electronic structure and photocatalytic activity of wurtzite Cu _{1-x} Ga _x nanocrystals and their Zn substitution. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8896-8904	13	32
147	Electrochemical Characteristics and Li ⁺ Ion Intercalation Kinetics of Dual-Phase Li ₄ Ti ₅ O ₁₂ /Li ₂ TiO ₃ Composite in the Voltage Range 0.8 V. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9553-9561	3.8	32
146	Tunable Nanocarrier Morphologies from Glycopolyptide-Based Amphiphilic Biocompatible Star Copolymers and Their Carbohydrate Specific Intracellular Delivery. <i>Biomacromolecules</i> , 2016 , 17, 466-75	6.9	31
145	Synthesis and photocatalytic activity of mesoporous nanocrystalline Fe-doped titanium dioxide. <i>Catalysis Today</i> , 2014 , 230, 158-165	5.3	31
144	Bipodal surface organometallic complexes with surface N-donor ligands and application to the catalytic cleavage of C-H and C-C bonds in n-butane. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17943-51	16.4	31
143	On the phenomenon of large photoluminescence red shift in GaN nanoparticles. <i>Nanoscale Research Letters</i> , 2013 , 8, 342	5	31
142	Synthesis of Copper Hydroxide Branched Nanocages and Their Transformation to Copper Oxide. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19374-19379	3.8	30
141	Size- and shape-controlled synthesis of hexagonal bipyramidal crystals and hollow self-assembled Al-MOF spheres. <i>ChemSusChem</i> , 2014 , 7, 529-35	8.3	30
140	Defects induced luminescence and tuning of bandgap energy narrowing in ZnO nanoparticles doped with Li ions. <i>Journal of Applied Physics</i> , 2014 , 116, 083510	2.5	29
139	Self-planarized quantum-disks-in-nanowires ultraviolet-B emitters utilizing pendeo-epitaxy. <i>Nanoscale</i> , 2017 , 9, 7805-7813	7.7	28
138	Multiple-diffusion flame synthesis of pure anatase and carbon-coated titanium dioxide nanoparticles. <i>Combustion and Flame</i> , 2013 , 160, 1848-1856	5.3	28

137	Inherent electrochemistry and charge transfer properties of few-layered two-dimensional TiCT MXene. <i>Nanoscale</i> , 2018 , 10, 17030-17037	7.7	28
136	VOx/SiO2 Catalyst Prepared by Grafting VOCl3 on Silica for Oxidative Dehydrogenation of Propane. <i>ChemCatChem</i> , 2015 , 7, 3332-3339	5.2	27
135	Synthesis of Cu/Cu2O nanoparticles by laser ablation in deionized water and their annealing transformation into CuO nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5759-66	1.3	26
134	Solution-processable MoOx nanocrystals enable highly efficient reflective and semitransparent polymer solar cells. <i>Nano Energy</i> , 2016 , 28, 277-287	17.1	23
133	A facile and novel approach towards carboxylic acid functionalization of multiwalled carbon nanotubes and efficient water dispersion. <i>Materials Letters</i> , 2013 , 108, 253-256	3.3	23
132	Tunable Selectivity for Electrochemical CO2 Reduction by Bimetallic CuSn Catalysts: Elucidating the Roles of Cu and Sn. <i>ACS Catalysis</i> , 2021 , 11, 11103-11108	13.1	23
131	Type-I band alignment at MoS2/In0.15Al0.85N lattice matched heterojunction and realization of MoS2 quantum well. <i>Applied Physics Letters</i> , 2017 , 111, 092104	3.4	22
130	Surface Composition of Silver Nanocubes and Their Influence on Morphological Stabilization and Catalytic Performance in Ethylene Epoxidation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28576-84	9.5	22
129	TiO-supported Pt single atoms by surface organometallic chemistry for photocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24429-24440	3.6	22
128	True Yellow Light-Emitting Diodes as Phosphor for Tunable Color-Rendering Index Laser-Based White Light. <i>ACS Photonics</i> , 2016 , 3, 2089-2095	6.3	21
127	Highly uniform ultraviolet-A quantum-confined AlGaIn nanowire LEDs on metal/silicon with a TaN interlayer. <i>Optical Materials Express</i> , 2017 , 7, 4214	2.6	21
126	Design Aspects of Doped CeO for Low-Temperature Catalytic CO Oxidation: Transient Kinetics and DFT Approach. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22391-22415	9.5	21
125	Thin porphyrin composite membranes with enhanced organic solvent transport. <i>Journal of Membrane Science</i> , 2018 , 563, 684-693	9.6	19
124	Selective Adsorption of Volatile Hydrocarbons and Gases in High Surface Area Chalcogenides Containing [ES3]3- Anions (E = As, Sb). <i>Chemistry of Materials</i> , 2014 , 26, 6454-6460	9.6	19
123	Hydrogen Production on Ag-Pd/TiO2 Bimetallic Catalysts: Is there a Combined Effect of Surface Plasmon Resonance with Schottky Mechanism on the Photo-Catalytic Activity?. <i>ChemistrySelect</i> , 2017 , 2, 2754-2762	1.8	17
122	Colloidal Sb2S3 nanocrystals: synthesis, characterization and fabrication of solid-state semiconductor sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6809-6814	13	17
121	Tethering metal ions to photocatalyst particulate surfaces by bifunctional molecular linkers for efficient hydrogen evolution. <i>ChemSusChem</i> , 2014 , 7, 2575-83	8.3	17
120	Impact of ion implantation damage and thermal budget on mobility enhancement in strained-Si N-channel MOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2004 , 51, 2136-2144	2.9	17

119	Observation of piezotronic and piezo-phototronic effects in n-InGaN nanowires/Ti grown by molecular beam epitaxy. <i>Nano Energy</i> , 2018 , 54, 264-271	17.1	17
118	Morphology control of anatase TiO for well-defined surface chemistry. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14362-14373	3.6	17
117	Trapping shape-controlled nanoparticle nucleation and growth stages via continuous-flow chemistry. <i>Chemical Communications</i> , 2017 , 53, 2495-2498	5.8	16
116	Rapid Size-Based Protein Discrimination inside Hybrid Isoporous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8507-8516	9.5	16
115	Synthesis, characterization and visible light photocatalytic activity of Cr ³⁺ , Ce ³⁺ and N co-doped TiO ₂ for the degradation of humic acid. <i>RSC Advances</i> , 2015 , 5, 32323-32332	3.7	16
114	An evaluation of microwave-assisted fusion and microwave-assisted acid digestion methods for determining elemental impurities in carbon nanostructures using inductively coupled plasma optical emission spectrometry. <i>Talanta</i> , 2016 , 148, 94-100	6.2	16
113	Nano-sized quaternary CuGa ₂ In ₃ S ₈ as an efficient photocatalyst for solar hydrogen production. <i>ChemSusChem</i> , 2014 , 7, 3112-21	8.3	16
112	Synthesis, optical properties and residual strain effect of GaN nanowires generated via metal-assisted photochemical electroless etching. <i>RSC Advances</i> , 2017 , 7, 21697-21702	3.7	15
111	Synthesis and Characterization of Branched fcc/hcp Ruthenium Nanostructures and Their Catalytic Activity in Ammonia Borane Hydrolysis. <i>Crystal Growth and Design</i> , 2018 , 18, 1509-1516	3.5	15
110	Electrodeposited Ultrafine TaOx/CB Catalysts for PEFC Cathode Application: Their Oxygen Reduction Reaction Kinetics. <i>Electrochimica Acta</i> , 2014 , 149, 76-85	6.7	15
109	Room temperature p-type conductivity and coexistence of ferroelectric order in ferromagnetic Li doped ZnO nanoparticles. <i>Journal of Applied Physics</i> , 2014 , 116, 164109	2.5	15
108	Effect of surface structure on the catalytic behavior of Ni:Cu/Al and Ni:Cu:K/Al catalysts for methane decomposition. <i>Journal of Natural Gas Chemistry</i> , 2008 , 17, 374-382		14
107	Impact of p-type doping on charge transport in blade-coated small-molecule:polymer blend transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15368-15376	7.1	14
106	Bandgap measurements and the peculiar splitting of E _{2H} phonon modes of In _x Al _{1-x} N nanowires grown by plasma assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2016 , 120, 045701	2.5	14
105	L1 ordering and precipitation in Al-Cu-Li. <i>Scientific Reports</i> , 2017 , 7, 3254	4.9	13
104	Nano-design of quantum dot-based photocatalysts for hydrogen generation using advanced surface molecular chemistry. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1001-9	3.6	12
103	From porous gold nanocups to porous nanospheres and solid particles--a new synthetic approach. <i>Journal of Colloid and Interface Science</i> , 2015 , 446, 59-66	9.3	12
102	Shape-controlled synthesis of Au@Pd core-shell nanoparticles and their corresponding electrochemical properties. <i>RSC Advances</i> , 2012 , 2, 3621	3.7	12

101	Impact of Pore-Walls Ligand Assembly on the Biodegradation of Mesoporous Organosilica Nanoparticles for Controlled Drug Delivery. <i>ACS Omega</i> , 2018 , 3, 5195-5201	3.9	12
100	Nanoscale stress analysis of strained-Si metal-oxide-semiconductor field-effect transistors by quantitative electron diffraction contrast imaging. <i>Applied Physics Letters</i> , 2005 , 87, 222111	3.4	11
99	Plasmon Resonance Enhanced Photocatalysis Under Visible Light with Au/Cu ₂ O Nanoparticles: Removal Cr (VI) from Water as a Case of Study. <i>Science of Advanced Materials</i> , 2013 , 5, 2007-2014	2.3	11
98	On the optical and microstrain analysis of graded InGa _N /Ga _N MQWs based on plasma assisted molecular beam epitaxy. <i>Optical Materials Express</i> , 2016 , 6, 2052	2.6	11
97	Tungsten(VI) Carbyne/Bis(carbene) Tautomerization Enabled by N-Donor SBA15 Surface Ligands: A Solid-State NMR and DFT Study. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11162-6	16.4	11
96	Exploiting the interactions between the ruthenium Hoveyda-Grubbs catalyst and Al-modified mesoporous silica: the case of SBA15 KCC-1. <i>Chemical Science</i> , 2018 , 9, 3531-3537	9.4	10
95	Synthesis of TiO ₂ nanoparticles containing Fe, Si, and V using multiple diffusion flames and catalytic oxidation capability of carbon-coated nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	10
94	Well-defined mono(β -allyl)nickel complex ?MONi(β -C ₃ H ₅) (M = Si or Al) grafted onto silica or alumina: a molecularly dispersed nickel precursor for syntheses of supported small size nickel nanoparticles. <i>Chemical Communications</i> , 2014 , 50, 7716-9	5.8	10
93	One-Pot Synthesis of Size- and Composition-Controlled Ni-Rich NiPt Alloy Nanoparticles in a Reverse Microemulsion System and Their Application. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30643-30653	9.5	10
92	Electron irradiation induced reduction of the permittivity in chalcogenide glass (As ₂ S ₃) thin film. <i>Journal of Applied Physics</i> , 2013 , 113, 044116	2.5	10
91	Nanostructural Disorder and Reactivity Comparison of Flame Soot and Engine Soot Using Diesel and Jatropha Biodiesel/Diesel Blend as Fuels. <i>Energy & Fuels</i> , 2020 , 34, 12960-12971	4.1	10
90	Impacts of doping on epitaxial germanium thin film quality and Si-Ge interdiffusion. <i>Optical Materials Express</i> , 2018 , 8, 1117	2.6	9
89	Investigating the growth mechanism and optical properties of carbon-coated titanium dioxide nanoparticles. <i>Materials Letters</i> , 2013 , 108, 134-138	3.3	9
88	Synthesis of visible light driven cobalt tailored Ag ₂ O/TiON nanophotocatalyst by reverse micelle processing for degradation of Eriochrome Black T. <i>Materials Research Bulletin</i> , 2013 , 48, 705-714	5.1	9
87	First demonstration of InGaP/InAlGaP based orange laser emitting at 608 nm. <i>Electronics Letters</i> , 2015 , 51, 1102-1104	1.1	8
86	Curved wall-jet burner for synthesizing titania and silica nanoparticles. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 2267-2274	5.9	8
85	In vivo evaluation of the biodistribution of intravenously administered naked and functionalised silver nanoparticles in rabbit. <i>IET Nanobiotechnology</i> , 2015 , 9, 368-74	2	7
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83	Revealing microstructure and dislocation behavior in BAlN/AlGaN heterostructures. <i>Applied Physics Express</i> , 2018 , 11, 011001	2.4	7
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