

# Venkata Krishnan

## List of Publications by Citations

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39  
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151  
ext. papers

5,730  
ext. citations

6  
avg, IF

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L-index

#	Paper	IF	Citations
146	Perovskite Oxide Based Materials for Energy and Environment-Oriented Photocatalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10253-10315	13.1	162
145	Electrochemical-coupling layer-by-layer (ECC-LbL) assembly. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7348-51	16.4	131
144	Efficient Electron Transfer across a ZnO-MoS <sub>2</sub> -Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , <b>2017</b> , 10, 3588-3603	8.3	126
143	Rational Design and Development of Lanthanide-Doped NaYF <sub>4</sub> @CdS-Au-RGO as Quaternary Plasmonic Photocatalysts for Harnessing Visible-Near-Infrared Broadband Spectrum. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15565-15581	9.5	117
142	Synthesis, characterization, EXAFS investigation and antibacterial activities of new ruthenium(III) complexes containing tetradentate Schiff base. <i>Journal of Inorganic Biochemistry</i> , <b>2004</b> , 98, 2131-40	4.2	115
141	N-doped ZnO/MoS <sub>2</sub> binary heterojunctions: the dual role of 2D MoS <sub>2</sub> in the enhancement of photostability and photocatalytic activity under visible light irradiation for tetracycline degradation. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1093-1106	7.8	101
140	Synergetic effect of MoS <sub>2</sub> /RGO doping to enhance the photocatalytic performance of ZnO nanoparticles. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 5185-5197	3.6	100
139	Two dimensional N-doped ZnO-graphitic carbon nitride nanosheets heterojunctions with enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 3988-4002	6.7	95
138	Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 1571-1600	3	94
137	Vortex-aligned fullerene nanowhiskers as a scaffold for orienting cell growth. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15667-73	9.5	90
136	Recyclable, bifunctional composites of perovskite type N-CaTiO <sub>3</sub> and reduced graphene oxide as an efficient adsorptive photocatalyst for environmental remediation. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2391-2404	7.8	89
135	ZnO-graphene quantum dots heterojunctions for natural sunlight-driven photocatalytic environmental remediation. <i>Applied Surface Science</i> , <b>2018</b> , 447, 802-815	6.7	88
134	Multifunctional Cu/Ag quantum dots on TiO <sub>2</sub> nanotubes as highly efficient photocatalysts for enhanced solar hydrogen evolution. <i>Journal of Catalysis</i> , <b>2017</b> , 350, 226-239	7.3	87
133	Perovskite-structured CaTiO <sub>3</sub> coupled with g-CN as a heterojunction photocatalyst for organic pollutant degradation. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 671-685	3	83
132	Advanced activation of persulfate by polymeric g-CN based photocatalysts for environmental remediation: A review. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125324	12.8	81
131	Wide spectrum photocatalytic activity in lanthanide-doped upconversion nanophosphors coated with porous TiO <sub>2</sub> and Ag-Cu bimetallic nanoparticles. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 367, 694-705	12.8	70
130	Trifunctional metal-organic platform for environmental remediation: structural features with peripheral hydroxyl groups facilitate adsorption, degradation and reduction processes. <i>Dalton Transactions</i> , <b>2019</b> , 48, 915-927	4.3	68

129	Highly Efficient Visible Light Active 2D-2D Nanocomposites of N-ZnO-g-C3N4 for Photocatalytic Degradation of Diverse Industrial Pollutants. <i>ChemistrySelect</i> , <b>2018</b> , 3, 1919-1932	1.8	63
128	Investigations on the Structural, Morphological, Electrical, and Magnetic Properties of CuFe2O4NiO Nanocomposites. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 429-439	9.6	63
127	Lanthanide Doped Near Infrared Active Upconversion Nanophosphors: Fundamental Concepts, Synthesis Strategies, and Technological Applications. <i>Small</i> , <b>2018</b> , 14, e1801304	11	62
126	Defect-Rich MoS2 Ultrathin Nanosheets-Coated Nitrogen-Doped ZnO Nanorod Heterostructures: An Insight into in-Situ-Generated ZnS for Enhanced Photocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5622-5634	6.1	62
125	Reduced graphene oxide supported MnO2 nanorods as recyclable and efficient adsorptive photocatalysts for pollutants removal. <i>Vacuum</i> , <b>2019</b> , 160, 333-346	3.7	61
124	Sulfonated graphitic carbon nitride as a highly selective and efficient heterogeneous catalyst for the conversion of biomass-derived saccharides to 5-hydroxymethylfurfural in green solvents. <i>Green Chemistry</i> , <b>2019</b> , 21, 6012-6026	10	60
123	Nanoporous carbon sensor with cage-in-fiber structure: highly selective aniline adsorbent toward cancer risk management. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 2930-4	9.5	57
122	EXAFS and XANES Investigations of CuFe2O4Nanoparticles and CuFe2O4MO2(M = Sn, Ce) Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 16724-16733	3.8	52
121	Preparation, spectral characterization, electrochemistry, EXAFS, antibacterial and catalytic activity of new ruthenium (III) complexes containing ONS donor ligands with triphenylphosphine/arsine. <i>Applied Organometallic Chemistry</i> , <b>2006</b> , 20, 203-213	3.1	51
120	Nanoscale zinc oxide based heterojunctions as visible light active photocatalysts for hydrogen energy and environmental remediation. <i>Catalysis Reviews - Science and Engineering</i> , <b>2020</b> , 62, 346-405	12.6	49
119	A metal-organic framework based multifunctional catalytic platform for organic transformation and environmental remediation. <i>Dalton Transactions</i> , <b>2018</b> , 47, 1488-1497	4.3	49
118	Interplay between Mesocrystals of CaTiO3 and Edge Sulfur Atom Enriched MoS2 on Reduced Graphene Oxide Nanosheets: Enhanced Photocatalytic Performance under Sunlight Irradiation. <i>ChemPhotoChem</i> , <b>2020</b> , 4, 427-444	3.3	47
117	Nanocomposite of MoS2-RGO as Facile, Heterogeneous, Recyclable, and Highly Efficient Green Catalyst for One-Pot Synthesis of Indole Alkaloids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8551-8567	8.3	47
116	Synthesis, characterization and optical limiting properties of a gallium phthalocyanine dimer. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 683		47
115	Computational de novo design and characterization of a protein that selectively binds a highly hyperpolarizable abiological chromophore. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13914-26	16.4	46
114	Vacancy Engineering in Semiconductor Photocatalysts: Implications in Hydrogen Evolution and Nitrogen Fixation Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009807	15.6	46
113	Enhancement of Luminescence Intensity in Red Emitting NaYF4:Yb/Ho/Mn Upconversion Nanophosphors by Variation of Reaction Parameters. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 11783-11793	3.8	44
112	Towards utilization of full solar light spectrum using green plasmonic AuNiO x photocatalyst at ambient conditions. <i>Surfaces and Interfaces</i> , <b>2018</b> , 11, 98-106	4.1	43

111	Sunlight driven photocatalytic reduction of 4-nitrophenol on Pt decorated ZnO-RGO nanoheterostructures. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 214, 364-376	4.4	41
110	LaSrCoFeO and Fe <sub>2</sub> O <sub>3</sub> /LaSrCoFeO Powders: Synthesis and Characterization. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2796-2808	9.6	41
109	Near-infrared driven photocatalytic performance of lanthanide-doped NaYF <sub>4</sub> @CdS core-shell nanostructures with enhanced upconversion properties. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 724, 481-491	5.7	40
108	Carbon-Support-Based Heterogeneous Nanocatalysts: Synthesis and Applications in Organic Reactions. <i>Asian Journal of Organic Chemistry</i> , <b>2019</b> , 8, 1263-1305	3	39
107	Sunlight driven methanol oxidation by anisotropic plasmonic Au nanostructures supported on amorphous titania: Influence of morphology on photocatalytic activity. <i>Materials Letters</i> , <b>2019</b> , 245, 45-48	3.3	39
106	Recent Advances in Plasmonic Photocatalysis Based on TiO and Noble Metal Nanoparticles for Energy Conversion, Environmental Remediation, and Organic Synthesis. <i>Small</i> , <b>2021</b> , e2101638	11	39
105	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. <i>Applied Surface Science</i> , <b>2020</b> , 514, 145930	6.7	38
104	Highly Directional 1D Supramolecular Assembly of New Diketopyrrolopyrrole-Based Gel for Organic Solar Cell Applications. <i>Langmuir</i> , <b>2016</b> , 32, 4346-51	4	37
103	Fabrication of highly sensitive biomimetic SERS substrates for detection of herbicides in trace concentration. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 710-719	8.5	36
102	Highly Dispersed Mixed Zirconia and Hafnia Nanoparticles in a Silica Matrix: First Example of a ZrO <sub>2</sub> HfO <sub>2</sub> BiO <sub>2</sub> Ternary Oxide System. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 1671-1681	15.6	36
101	Potassium-Functionalized Graphitic Carbon Nitride Supported on Reduced Graphene Oxide as a Sustainable Catalyst for Knoevenagel Condensation. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6711-6723	5.6	36
100	Gladiolus dalenii Based Bioinspired Structured Surface via Soft Lithography and Its Application in Water Vapor Condensation and Fog Harvesting. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6981-6993	8.3	35
99	Role of RGO support and irradiation source on the photocatalytic activity of CdS-ZnO semiconductor nanostructures. <i>Beilstein Journal of Nanotechnology</i> , <b>2016</b> , 7, 1684-1697	3	35
98	Ammonia-Doped Polyaniline-Graphitic Carbon Nitride Nanocomposite as a Heterogeneous Green Catalyst for Synthesis of Indole-Substituted 4-Chromenes. <i>ACS Omega</i> , <b>2018</b> , 3, 12163-12178	3.9	35
97	Cadmium O-alkylxanthates as CVD precursors of CdS: a chemical characterization. <i>Applied Organometallic Chemistry</i> , <b>2005</b> , 19, 59-67	3.1	34
96	Photocatalytic Reduction and Recognition of Cr(VI): New Zn(II)-Based Metal-Organic Framework as Catalytic Surface. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 8538-8550	3.9	32
95	Visible-Light-Driven Selective Oxidation of Biomass-Derived HMF to DFF Coupled with H <sub>2</sub> Generation by Noble Metal-Free Zn <sub>0.5</sub> Cd <sub>0.5</sub> S/MnO <sub>2</sub> Heterostructures. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7138-7148	6.1	31
94	Oxidized graphitic carbon nitride as a sustainable metal-free catalyst for hydrogen transfer reactions under mild conditions. <i>Green Chemistry</i> , <b>2020</b> , 22, 5084-5095	10	30

93	Influence of different bismuth oxyhalides on the photocatalytic activity of graphitic carbon nitride: a comparative study under natural sunlight. <i>Materials Advances</i> , <b>2020</b> , 1, 1262-1272	3.3	29
92	Controlled synthesis, bioimaging and toxicity assessments in strong red emitting Mn <sup>2+</sup> doped NaYF <sub>4</sub> :Yb <sup>3+</sup> /Ho <sup>3+</sup> nanophosphors. <i>RSC Advances</i> , <b>2016</b> , 6, 53698-53704	3.7	28
91	A Dual-Characteristic Bidentate Ligand for a Ternary Mononuclear Europium(III) Molecular Complex: Synthesis, Photophysical, Electrochemical, and Theoretical Study. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 3900-3911	2.3	27
90	Plasmon induced hot electron generation in two dimensional carbonaceous nanosheets decorated with Au nanostars: enhanced photocatalytic activity under visible light. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 1448-1467	7.8	27
89	Unraveling the structural and morphological stability of oxygen vacancy engineered leaf-templated CaTiO <sub>3</sub> towards photocatalytic H <sub>2</sub> evolution and N <sub>2</sub> fixation reactions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17006-17018	13	27
88	Zr and Hf oxoclusters as building blocks for the preparation of nanostructured hybrid materials and binary oxides MO <sub>2</sub> BiO <sub>2</sub> (M = Hf, Zr). <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1954		26
87	Fabrication of nanoheterostructures of boron doped ZnO-MoS <sub>2</sub> with enhanced photostability and photocatalytic activity for environmental remediation applications. <i>Vacuum</i> , <b>2019</b> , 163, 88-98	3.7	25
86	2D-2D Nanocomposite of MoS <sub>2</sub> -Graphitic Carbon Nitride as Multifunctional Catalyst for Sustainable Synthesis of C <sub>3</sub> -Functionalized Indoles. <i>ChemCatChem</i> , <b>2018</b> , 10, 3121-3132	5.2	24
85	Investigations on the fog harvesting mechanism of Bermuda grass ( <i>Cynodon dactylon</i> ). <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2016</b> , 224, 59-65	1.9	24
84	Atmospheric pressure conversion of carbon dioxide to cyclic carbonates using a metal-free Lewis acid-base bifunctional heterogeneous catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 51, 101646	7.6	23
83	Three-Dimensional Carbonaceous Aerogels Embedded with Rh-SrTiO <sub>3</sub> for Enhanced Hydrogen Evolution Triggered by Efficient Charge Transfer and Light Absorption. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12134-12147	6.1	22
82	Homogeneously embedded Pt nanoclusters on amorphous titania matrix as highly efficient visible light active photocatalyst material. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 179, 129-136	4.4	22
81	Control of the orientational order and nonlinear optical response of the "push-pull" chromophore RuPZn via specific incorporation into densely packed monolayer ensembles of an amphiphilic four-helix bundle peptide: characterization of the peptide-chromophore complexes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11083-92	16.4	22
80	Amine-functionalized, porous silica-coated NaYF <sub>4</sub> :Yb/Er upconversion nanophosphors for efficient delivery of doxorubicin and curcumin. <i>Materials Science and Engineering C</i> , <b>2019</b> , 96, 86-95	8.3	22
79	Clustered Au on TiO <sub>2</sub> Snowman-Like Nanoassemblies for Photocatalytic Applications. <i>ChemistrySelect</i> , <b>2016</b> , 1, 2963-2970	1.8	21
78	Strategic combination of ultra violet-visible-near infrared light active materials towards maximum utilization of full solar spectrum for photocatalytic chromium reduction. <i>Chemosphere</i> , <b>2021</b> , 267, 128884	8.4	20
77	Novel rare earth metal doped one-dimensional TiO <sub>2</sub> nanostructures: Fundamentals and multifunctional applications. <i>Materials Today Sustainability</i> , <b>2021</b> , 13, 100066	5	20
76	Enhanced photocatalytic activity of two dimensional ternary nanocomposites of ZnO-BiWO <sub>4</sub> -TiC MXene under natural sunlight irradiation. <i>Chemosphere</i> , <b>2022</b> , 287, 132119	8.4	20

75	Microwave-assisted one-step synthesis of acetate-capped NaYF <sub>4</sub> :Yb/Er upconversion nanocrystals and their application in bioimaging. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 5738-5750	4.3	19
74	Hydrogen-bond-driven homogeneous intercalation for rapid, reversible, and ultra-precise actuation of layered clay nanosheets. <i>Chemical Communications</i> , <b>2013</b> , 49, 3631-3	5.8	19
73	Highly efficient visible-light-driven reduction of Cr(VI) from water by porphyrin-based metal-organic frameworks: effect of band gap engineering on the photocatalytic activity. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 7724-7733	5.5	19
72	Sulfonic acid functionalized graphitic carbon nitride as solid acid-base bifunctional catalyst for Knoevenagel condensation and multicomponent tandem reactions. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6265-6278	7.8	19
71	Gold Deposited Plant Leaves for SERS: Role of Surface Morphology, Wettability and Deposition Technique in Determining the Enhancement Factor and Sensitivity of Detection. <i>ChemistrySelect</i> , <b>2017</b> , 2, 165-174	1.8	18
70	Manipulation of thin film assemblies: Recent progress and novel concepts. <i>Current Opinion in Colloid and Interface Science</i> , <b>2011</b> , 16, 459-469	7.6	18
69	Fog-Harvesting Properties of : Role of Interscalar Microchannels in Water-Channeling. <i>Biomimetics</i> , <b>2018</b> , 3,	3.7	17
68	Bioinspired Dip Catalysts for Suzuki-Miyaura Cross-Coupling Reactions: Effect of Scaffold Architecture on the Performance of the Catalyst. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700604	4.6	17
67	Control of the orientational order and nonlinear optical response of the "push-pull" chromophore RuPZn via specific incorporation into densely packed monolayer ensembles of an amphiphilic 4-helix bundle peptide: second harmonic generation at high chromophore densities. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9693-700	16.4	17
66	Sub-Picomolar Recognition of Cr <sup>3+</sup> through Bioinspired Organic-Inorganic Ensemble Utilization. <i>ACS Sensors</i> , <b>2016</b> , 1, 663-669	9.2	17
65	Sea urchin shaped ZnO coupled with MoS <sub>2</sub> and polyaniline as highly efficient photocatalysts for organic pollutant decomposition and hydrogen evolution. <i>Ceramics International</i> , <b>2021</b> , 47, 10301-10313	5.1	17
64	Selective and Sensitive Fluorescent Detection of Picric Acid by New Pyrene and Anthracene Based Copper Complexes. <i>Journal of Fluorescence</i> , <b>2016</b> , 26, 2041-2046	2.4	16
63	Effects of electron-withdrawing groups in imidazole-phenanthroline ligands and their influence on the photophysical properties of Eu(III) complexes for white light-emitting diodes. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 9826-9839	3.6	16
62	EXAFS Spectroscopy [Fundamentals, Measurement Techniques, Data Evaluation and Applications in the Field of Phthalocyanines. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2004</b> , 218, 1-16	3.1	16
61	Synthesis and characterization of zinc bis(O-isopropylxanthate) as a single-source chemical vapor deposition precursor for ZnS. <i>Applied Organometallic Chemistry</i> , <b>2005</b> , 19, 1002-1009	3.1	16
60	Bioinspired Functional Surfaces for Technological Applications. <i>Journal of Molecular and Engineering Materials</i> , <b>2016</b> , 04, 1640006	1.3	15
59	Interferometric enhancement of x-ray reflectivity from unperturbed Langmuir monolayers of amphiphiles at the liquid-gas interface. <i>Physical Review E</i> , <b>2010</b> , 81, 021604	2.4	15
58	Integration of Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> nanoparticles with ZnO: Impressive visible-light-induced systems for elimination of aqueous contaminants. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 119, 177-186	5.3	15

57	Plant leaves as natural green scaffolds for palladium catalyzed Suzuki-Miyaura coupling reactions. <i>Bioinspiration and Biomimetics</i> , <b>2016</b> , 12, 016010	2.6	14
56	Structural investigations on the hydrolysis and condensation behavior of pure and chemically modified alkoxides. 1. Transition metal (Hf and Ta) alkoxides. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7501-18	3.4	14
55	Preferential intermolecular interactions lead to chiral recognition: enantioselective gel formation and collapse. <i>Chemical Communications</i> , <b>2018</b> , 54, 11407-11410	5.8	14
54	Photocatalytic Degradation of Organic Pollutants in Water Using Graphene Oxide Composite <b>2019</b> , 413-438		13
53	Synthesis, EPR, electrochemistry and EXAFS studies of ruthenium(III) complexes with a symmetrical tetradentate N <sub>2</sub> O <sub>2</sub> Schiff base. <i>Inorganica Chimica Acta</i> , <b>2006</b> , 359, 1114-1120	2.7	13
52	Structural investigations on the hydrolysis and condensation behavior of pure and chemically modified alkoxides. 2. Germanium alkoxides. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7519-28	3.4	11
51	Design of noble metal-free CoTiO <sub>2</sub> /ZnCdS heterostructure photocatalyst for selective synthesis of furfuraldehyde combined with H <sub>2</sub> production. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 608, 1040-1050	8.3	11
50	Amorphous titania matrix impregnated with Ag nanoparticles as a highly efficient visible- and sunlight-active photocatalyst material. <i>Materials Technology</i> , <b>2017</b> , 32, 461-471	2.1	10
49	Structural evolution and effects of calcium doping on nanophasic LaCoO <sub>3</sub> powders prepared by non-alkoxidic sol-gel technique. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2020		10
48	Controlling the kinetics of visible-light-induced photocatalytic performance of gold decorated graphitic carbon nitride nanocomposite using different proteins. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105147	6.8	10
47	Efficient photocatalytic generation of hydrogen by twin Zn Cd S nanorods decorated with noble metal-free co-catalyst and reduction of 4-nitrophenol in water. <i>Applied Surface Science</i> , <b>2021</b> , 550, 149367	6.7	10
46	Perovskite-Based Materials for Photocatalytic Environmental Remediation. <i>Environmental Chemistry for A Sustainable World</i> , <b>2019</b> , 139-165	0.8	9
45	Bioinspired 3 D Surface-Enhanced Raman Spectroscopy Substrates for Surface Plasmon Driven Photooxidation Reactions: Role of Catalyst and Substrate in Controlling the Selectivity of Product Formation. <i>ChemCatChem</i> , <b>2018</b> , 10, 975-979	5.2	9
44	Nanohybrid of ZnO-RGO as Heterogeneous Green Catalyst for the Synthesis of Medicinally Significant Indole Alkaloids and Their Derivatives. <i>ChemistrySelect</i> , <b>2018</b> , 3, 314-320	1.8	9
43	Shape Selective Au-TiO <sub>2</sub> Nanocomposites for Photocatalytic Applications. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, 1939-1948	1.4	9
42	Influence of preparation technique and iron doping on the structure and reactivity of mixed Fe <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> nanocomposites. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 92, 394-402	4.4	9
41	Selective and efficient aerobic oxidation of benzyl alcohols using plasmonic Au-TiO <sub>2</sub> : Influence of phase transformation on photocatalytic activity. <i>Applied Surface Science</i> , <b>2022</b> , 578, 151953	6.7	9
40	Au Nanoparticle Aggregates Assembled on 3D Mirror-like Configuration Using <i>Canna generalis</i> Leaves for SERS Applications. <i>Colloids and Interface Science Communications</i> , <b>2017</b> , 18, 9-12	5.4	9

39	Tuning the surface and optical properties of graphitic carbon nitride by incorporation of alkali metals (Na, K, Cs and Rb): Effect on photocatalytic removal of organic pollutants. <i>Chemosphere</i> , <b>2022</b> , 287, 131988	8.4	9
38	Upconversion Luminescent Material-Based Inorganic-Organic Hybrid Sensing System for the Selective Detection of Hydrazine in Environmental Samples. <i>ChemistrySelect</i> , <b>2018</b> , 3, 1793-1800	1.8	8
37	Processable dispersions of photocatalytically active nanosheets derived from titanium diboride: self assembly into hydrogels and paper-like macrostructures. <i>Nanoscale</i> , <b>2020</b> , 12, 17121-17131	7.7	8
36	Ultrathin Au/Ag Heterojunctions on Nanoarchitectonics Based Biomimetic Substrates for Dip Catalysis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 1954-1966	3.2	8
35	Borophene and Boron-Based Nanosheets: Recent Advances in Synthesis Strategies and Applications in the Field of Environment and Energy. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100045	4.6	8
34	Conformation induced discrimination between picric acid and nitro derivatives/anions with a Cu-pyrene array: the first decision making photonic device. <i>RSC Advances</i> , <b>2013</b> , 3, 21365	3.7	7
33	Portable UV-visible spectrometer for measuring absorbance and dichroism of Langmuir monolayers at air-water interfaces. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 033102	1.7	7
32	Sol-Gel Processed Diamine(diphosphine)ruthenium(II) Complexes for the Catalytic Hydrogenation of $\alpha$ -Unsaturated Ketones <sup>1,2</sup> . <i>Chemistry of Materials</i> , <b>2005</b> , 17, 3951-3959	9.6	7
31	Bioderived carbon supported bismuth molybdate nanocomposites as bifunctional catalysts for removal of organic pollutants: Adsorption and photocatalytic studies. <i>Materials Letters</i> , <b>2021</b> , 302, 130435 <sup>3</sup>	3.3	7
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