

Venkata Krishnan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146
papers

4,380
citations

39
h-index

58
g-index

151
ext. papers

5,730
ext. citations

6
avg, IF

6.53
L-index

#	Paper	IF	Citations
146	Upconversion nanomaterials for photocatalytic applications 2022 , 391-406		0
145	Nanoarchitectonics of phosphomolybdic acid supported on activated charcoal for selective conversion of furfuryl alcohol and levulinic acid to alkyl levulinates. <i>Molecular Catalysis</i> , 2022 , 519, 112135	3.3	2
144	Design of noble metal-free NiTiO/ZnInS heterojunction photocatalyst for efficient visible-light-assisted production of H ₂ and selective synthesis of 2,5-Bis(hydroxymethyl)furan.. <i>Journal of Colloid and Interface Science</i> , 2022 , 615, 346-356	9.3	4
143	Selective and efficient aerobic oxidation of benzyl alcohols using plasmonic Au-TiO ₂ : Influence of phase transformation on photocatalytic activity. <i>Applied Surface Science</i> , 2022 , 578, 151953	6.7	9
142	Design of noble metal-free CoTiO/ZnCdS heterostructure photocatalyst for selective synthesis of furfuraldehyde combined with H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 1040-1050	10.5	11
141	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> , 2022 , 287, 131988	8.4	9
140	Enhanced photocatalytic activity of two dimensional ternary nanocomposites of ZnO-BiWO ₄ -TiC MXene under natural sunlight irradiation. <i>Chemosphere</i> , 2022 , 287, 132119	8.4	20
139	Mercapto-decorated Zn-based metal-organic framework embedded nanofibrous membrane for oxo-anions treatment in aqueous solution. <i>Chemical Engineering Journal</i> , 2022 , 136212	14.7	2
138	Nanoarchitectonics of Vanadium Carbide MXenes for Separation and Catalytic Degradation of Contaminants. <i>Separation and Purification Technology</i> , 2022 , 121032	8.3	1
137	Surface-modified carbonaceous nanomaterials for CO ₂ hydrogenation and fixation 2022 , 223-249		1
136	Near Infrared Light Active Lanthanide-Doped Upconversion Nanoparticles: Recent Advances and Applications. <i>Springer Handbooks</i> , 2022 , 339-362	1.3	1
135	Nanoarchitectonics of phosphorylated graphitic carbon nitride for sustainable, selective and metal-free synthesis of primary amides. <i>Chemical Engineering Journal</i> , 2021 , 431, 133695	14.7	3
134	Water-Stable Zn-based Metal-Organic Framework with Hydrophilic-Hydrophobic Surface for Selective Adsorption and Sensitive Detection of Oxo-anions and Pesticides in Aqueous Medium. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 10, 106667	6.8	1
133	Vacancy Engineering in Semiconductor Photocatalysts: Implications in Hydrogen Evolution and Nitrogen Fixation Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2009807	15.6	46
132	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> , 2021 , 9, 105147	6.8	10
131	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> , 2021 , 550, 149367	6.7	10
130	Advanced activation of persulfate by polymeric g-CN based photocatalysts for environmental remediation: A review. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125324	12.8	81

129	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> , 2021 , 267, 128884	8.4	20
128	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> , 2021 , 5, 1448-1467	7.8	27
127	Sea urchin shaped ZnO coupled with MoS ₂ and polyaniline as highly efficient photocatalysts for organic pollutant decomposition and hydrogen evolution. <i>Ceramics International</i> , 2021 , 47, 10301-10313	5.1	17
126	Coordination networks for the recognition of oxo-anions. <i>Dalton Transactions</i> , 2021 , 50, 8273-8291	4.3	4
125	Nanomaterials for Photocatalytic Decomposition of Endocrine Disruptors in Water 2021 , 299-320		1
124	Sulfonic acid functionalized graphitic carbon nitride as solid acid-base bifunctional catalyst for Knoevenagel condensation and multicomponent tandem reactions. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6265-6278	7.8	19
123	Ultrathin Au-Ag Heterojunctions on Nanoarchitectonics Based Biomimetic Substrates for Dip Catalysis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1954-1966	3.2	8
122	Integration of Bi ₄ O ₅ I ₂ nanoparticles with ZnO: Impressive visible-light-induced systems for elimination of aqueous contaminants. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 119, 177-186	5.3	15
121	Borophene and Boron-Based Nanosheets: Recent Advances in Synthesis Strategies and Applications in the Field of Environment and Energy. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100045	4.6	8
120	Recent Advances in Plasmonic Photocatalysis Based on TiO ₂ and Noble Metal Nanoparticles for Energy Conversion, Environmental Remediation, and Organic Synthesis. <i>Small</i> , 2021 , e2101638	11	39
119	Novel rare earth metal-doped one-dimensional TiO ₂ nanostructures: Fundamentals and multifunctional applications. <i>Materials Today Sustainability</i> , 2021 , 13, 100066	5	20
118	Atmospheric pressure conversion of carbon dioxide to cyclic carbonates using a metal-free Lewis acid-base bifunctional heterogeneous catalyst. <i>Journal of CO₂ Utilization</i> , 2021 , 51, 101646	7.6	23
117	Influence of Lewis and Brønsted acidic sites on graphitic carbon nitride catalyst for aqueous phase conversion of biomass derived monosaccharides to 5-hydroxymethylfurfural. <i>Carbon</i> , 2021 , 183, 984-998	10.4	6
116	Bio-derived carbon supported bismuth molybdate nanocomposites as bifunctional catalysts for removal of organic pollutants: Adsorption and photocatalytic studies. <i>Materials Letters</i> , 2021 , 302, 130453	3.3	7
115	Nanostructured Heterogeneous Catalysts for Biomass Conversion in Green Solvents 2021 , 1041-1064		
114	Unraveling the structural and morphological stability of oxygen vacancy engineered leaf-templated CaTiO ₃ towards photocatalytic H ₂ evolution and N ₂ fixation reactions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17006-17018	13	27
113	Three-Dimensional Carbonaceous Aerogels Embedded with Rh-SrTiO ₃ for Enhanced Hydrogen Evolution Triggered by Efficient Charge Transfer and Light Absorption. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12134-12147	6.1	22
112	Cascade Reaction-Based Chemiresistive Array for Ethylene Sensing. <i>ACS Sensors</i> , 2020 , 5, 1405-1410	9.2	6

111	Two-dimensional MXene-based heterostructures for photocatalysis 2020 , 247-267		3
110	Photocatalytic Reduction and Recognition of Cr(VI): New Zn(II)-Based Metal-Organic Framework as Catalytic Surface. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8538-8550	3.9	32
109	Visible-Light-Driven Selective Oxidation of Biomass-Derived HMF to DFF Coupled with H ₂ Generation by Noble Metal-Free Zn _{0.5} Cd _{0.5} S/MnO ₂ Heterostructures. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7138-7148	6.1	31
108	Interplay between Mesocrystals of CaTiO ₃ and Edge Sulfur Atom Enriched MoS ₂ on Reduced Graphene Oxide Nanosheets: Enhanced Photocatalytic Performance under Sunlight Irradiation. <i>ChemPhotoChem</i> , 2020 , 4, 427-444	3.3	47
107	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. <i>Applied Surface Science</i> , 2020 , 514, 145930	6.7	38
106	Nanostructured Heterogeneous Catalysts for Biomass Conversion in Green Solvents 2020 , 1-24		
105	Nanoscale zinc oxide based heterojunctions as visible light active photocatalysts for hydrogen energy and environmental remediation. <i>Catalysis Reviews - Science and Engineering</i> , 2020 , 62, 346-405	12.6	49
104	Bisindolemethane derivatives as highly potent anticancer agents: Synthesis, medicinal activity evaluation, cell-based compound discovery, and computational target predictions. <i>Computers in Biology and Medicine</i> , 2020 , 116, 103574	7	6
103	Oxidized graphitic carbon nitride as a sustainable metal-free catalyst for hydrogen transfer reactions under mild conditions. <i>Green Chemistry</i> , 2020 , 22, 5084-5095	10	30
102	Influence of different bismuth oxyhalides on the photocatalytic activity of graphitic carbon nitride: a comparative study under natural sunlight. <i>Materials Advances</i> , 2020 , 1, 1262-1272	3.3	29
101	Processable dispersions of photocatalytically active nanosheets derived from titanium diboride: self assembly into hydrogels and paper-like macrostructures. <i>Nanoscale</i> , 2020 , 12, 17121-17131	7.7	8
100	Perovskite Oxide Based Materials for Energy and Environment-Oriented Photocatalysis. <i>ACS Catalysis</i> , 2020 , 10, 10253-10315	13.1	162
99	Beetle wing inspired fabrication of nanojunction based biomimetic SERS substrates for sensitive detection of analytes. <i>Materials Technology</i> , 2020 , 1-12	2.1	5
98	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> , 2020 , 10, 7724-7733	5.5	19
97	Metal-organic frameworks for photocatalytic degradation of pollutants 2020 , 91-126		3
96	Carbon-Based Nanocomposites as Heterogeneous Catalysts for Organic Reactions in Environment Friendly Solvents 2020 , 71-119		3
95	Trifunctional metal-organic platform for environmental remediation: structural features with peripheral hydroxyl groups facilitate adsorption, degradation and reduction processes. <i>Dalton Transactions</i> , 2019 , 48, 915-927	4.3	68
94	Carbon-Support-Based Heterogeneous Nanocatalysts: Synthesis and Applications in Organic Reactions. <i>Asian Journal of Organic Chemistry</i> , 2019 , 8, 1263-1305	3	39

93	SERS Application of Noble Metal/Metal Oxide Hybrid Nanoparticles 2019 , 457-486		1
92	Perovskite-Based Materials for Photocatalytic Environmental Remediation. <i>Environmental Chemistry for A Sustainable World</i> , 2019 , 139-165	0.8	9
91	Fabrication of nanoheterostructures of boron doped ZnO-MoS2 with enhanced photostability and photocatalytic activity for environmental remediation applications. <i>Vacuum</i> , 2019 , 163, 88-98	3.7	25
90	Photocatalytic Degradation of Organic Pollutants in Water Using Graphene Oxide Composite 2019 , 413-438		13
89	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> , 2019 , 2, 5622-5634	6.1	62
88	Sunlight driven methanol oxidation by anisotropic plasmonic Au nanostructures supported on amorphous titania: Influence of morphology on photocatalytic activity. <i>Materials Letters</i> , 2019 , 245, 45-48	2.3	39
87	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> , 2019 , 21, 6012-6026	10	60
86	Wide spectrum photocatalytic activity in lanthanide-doped upconversion nanophosphors coated with porous TiO and Ag-Cu bimetallic nanoparticles. <i>Journal of Hazardous Materials</i> , 2019 , 367, 694-705	12.8	70
85	Amine-functionalized, porous silica-coated NaYF:Yb/Er upconversion nanophosphors for efficient delivery of doxorubicin and curcumin. <i>Materials Science and Engineering C</i> , 2019 , 96, 86-95	8.3	22
84	Reduced graphene oxide supported MnO2 nanorods as recyclable and efficient adsorptive photocatalysts for pollutants removal. <i>Vacuum</i> , 2019 , 160, 333-346	3.7	61
83	2D-2D Nanocomposite of MoS2-Graphitic Carbon Nitride as Multifunctional Catalyst for Sustainable Synthesis of C3-Functionalized Indoles. <i>ChemCatChem</i> , 2018 , 10, 3121-3132	5.2	24
82	ZnO-graphene quantum dots heterojunctions for natural sunlight-driven photocatalytic environmental remediation. <i>Applied Surface Science</i> , 2018 , 447, 802-815	6.7	88
81	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> , 2018 , 6, 6981-6993	8.3	35
80	Fabrication of highly sensitive biomimetic SERS substrates for detection of herbicides in trace concentration. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 710-719	8.5	36
79	Upconversion Luminescent Material-Based Inorganic-Organic Hybrid Sensing System for the Selective Detection of Hydrazine in Environmental Samples. <i>ChemistrySelect</i> , 2018 , 3, 1793-1800	1.8	8
78	Highly Efficient Visible Light Active 2D-2D Nanocomposites of N-ZnO-g-C3N4 for Photocatalytic Degradation of Diverse Industrial Pollutants. <i>ChemistrySelect</i> , 2018 , 3, 1919-1932	1.8	63
77	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> , 2018 , 10, 975-979	5.2	9
76	Nanohybrid of ZnO-RGO as Heterogeneous Green Catalyst for the Synthesis of Medicinally Significant Indole Alkaloids and Their Derivatives. <i>ChemistrySelect</i> , 2018 , 3, 314-320	1.8	9

75	Rational Design and Development of Lanthanide-Doped NaYF ₄ @CdS-Au-RGO as Quaternary Plasmonic Photocatalysts for Harnessing Visible-Near-Infrared Broadband Spectrum. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15565-15581	9.5	117
74	Towards utilization of full solar light spectrum using green plasmonic Au@TiO ₂ photocatalyst at ambient conditions. <i>Surfaces and Interfaces</i> , 2018 , 11, 98-106	4.1	43
73	Two dimensional N-doped ZnO-graphitic carbon nitride nanosheets heterojunctions with enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3988-4002	6.7	95
72	Lanthanide Doped Near Infrared Active Upconversion Nanophosphors: Fundamental Concepts, Synthesis Strategies, and Technological Applications. <i>Small</i> , 2018 , 14, e1801304	11	62
71	Perovskite-structured CaTiO ₃ coupled with g-CN as a heterojunction photocatalyst for organic pollutant degradation. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 671-685	3	83
70	Fog-Harvesting Properties of : Role of Interscalar Microchannels in Water-Channeling. <i>Biomimetics</i> , 2018 , 3,	3.7	17
69	Sunlight driven photocatalytic reduction of 4-nitrophenol on Pt decorated ZnO-RGO nanoheterostructures. <i>Materials Chemistry and Physics</i> , 2018 , 214, 364-376	4.4	41
68	A metal-organic framework based multifunctional catalytic platform for organic transformation and environmental remediation. <i>Dalton Transactions</i> , 2018 , 47, 1488-1497	4.3	49
67	Potassium-Functionalized Graphitic Carbon Nitride Supported on Reduced Graphene Oxide as a Sustainable Catalyst for Knoevenagel Condensation. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6711-6723	5.6	36
66	Ammonia-Doped Polyaniline-Graphitic Carbon Nitride Nanocomposite as a Heterogeneous Green Catalyst for Synthesis of Indole-Substituted 4-Chromenes. <i>ACS Omega</i> , 2018 , 3, 12163-12178	3.9	35
65	Preferential intermolecular interactions lead to chiral recognition: enantioselective gel formation and collapse. <i>Chemical Communications</i> , 2018 , 54, 11407-11410	5.8	14
64	Core-Shell Structures of Upconversion Nanocrystals Coated with Silica for Near Infrared Light Enabled Optical Imaging of Cancer Cells. <i>Micromachines</i> , 2018 , 9,	3.3	5
63	New Ni-Anthracene Complex for Selective and Sensitive Detection of 2,4,6-Trinitrophenol. <i>International Journal of Spectroscopy</i> , 2018 , 2018, 1-5		4
62	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> , 2017 , 2, 165-174	1.8	18
61	Microwave-assisted one-step synthesis of acetate-capped NaYF ₄ :Yb/Er upconversion nanocrystals and their application in bioimaging. <i>Journal of Materials Science</i> , 2017 , 52, 5738-5750	4.3	19
60	Enhancement of Luminescence Intensity in Red Emitting NaYF ₄ :Yb/Ho/Mn Upconversion Nanophosphors by Variation of Reaction Parameters. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11783-11793	3.8	44
59	Multifunctional Cu/Ag quantum dots on TiO ₂ nanotubes as highly efficient photocatalysts for enhanced solar hydrogen evolution. <i>Journal of Catalysis</i> , 2017 , 350, 226-239	7.3	87
58	Amorphous titania matrix impregnated with Ag nanoparticles as a highly efficient visible- and sunlight-active photocatalyst material. <i>Materials Technology</i> , 2017 , 32, 461-471	2.1	10

57	N-doped ZnO/MoS ₂ binary heterojunctions: the dual role of 2D MoS ₂ in the enhancement of photostability and photocatalytic activity under visible light irradiation for tetracycline degradation. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1093-1106	7.8	101
56	Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1571-1600	3	94
55	Recyclable, bifunctional composites of perovskite type N-CaTiO ₃ and reduced graphene oxide as an efficient adsorptive photocatalyst for environmental remediation. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2391-2404	7.8	89
54	Efficient Electron Transfer across a ZnO-MoS ₂ -Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2017 , 10, 3588-3603	8.3	126
53	Bioinspired Dip Catalysts for Suzuki-Miyaura Cross-Coupling Reactions: Effect of Scaffold Architecture on the Performance of the Catalyst. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700604	4.6	17
52	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> , 2017 , 41, 9826-9839	3.6	16
51	Nanocomposite of MoS ₂ -RGO as Facile, Heterogeneous, Recyclable, and Highly Efficient Green Catalyst for One-Pot Synthesis of Indole Alkaloids. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8551-8567	8.3	47
50	Sensitive Detection of Biomolecules by Surface Enhanced Raman Scattering using Plant Leaves as Natural Substrates. <i>EPJ Web of Conferences</i> , 2017 , 139, 00006	0.3	1
49	Near-infrared driven photocatalytic performance of lanthanide-doped NaYF ₄ @CdS core-shell nanostructures with enhanced upconversion properties. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 481-491	5.7	40
48	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> , 2017 , 18, 9-12	5.4	9
47	Plant leaves as natural green scaffolds for palladium catalyzed Suzuki-Miyaura coupling reactions. <i>Bioinspiration and Biomimetics</i> , 2016 , 12, 016010	2.6	14
46	Investigations on the fog harvesting mechanism of Bermuda grass (<i>Cynodon dactylon</i>). <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2016 , 224, 59-65	1.9	24
45	Bioinspired Functional Surfaces for Technological Applications. <i>Journal of Molecular and Engineering Materials</i> , 2016 , 04, 1640006	1.3	15
44	Selective and Sensitive Fluorescent Detection of Picric Acid by New Pyrene and Anthracene Based Copper Complexes. <i>Journal of Fluorescence</i> , 2016 , 26, 2041-2046	2.4	16
43	Shape Selective Au-TiO ₂ Nanocomposites for Photocatalytic Applications. <i>Materials Today: Proceedings</i> , 2016 , 3, 1939-1948	1.4	9
42	Clustered Au on TiO ₂ Snowman-Like Nanoassemblies for Photocatalytic Applications. <i>ChemistrySelect</i> , 2016 , 1, 2963-2970	1.8	21
41	Homogeneously embedded Pt nanoclusters on amorphous titania matrix as highly efficient visible light active photocatalyst material. <i>Materials Chemistry and Physics</i> , 2016 , 179, 129-136	4.4	22
40	Role of RGO support and irradiation source on the photocatalytic activity of CdS-ZnO semiconductor nanostructures. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1684-1697	3	35

39	Controlled synthesis, bioimaging and toxicity assessments in strong red emitting Mn ²⁺ doped NaYF ₄ :Yb ³⁺ /Ho ³⁺ nanophosphors. <i>RSC Advances</i> , 2016 , 6, 53698-53704	3.7	28
38	Synergetic effect of MoS ₂ /BGO doping to enhance the photocatalytic performance of ZnO nanoparticles. <i>New Journal of Chemistry</i> , 2016 , 40, 5185-5197	3.6	100
37	Sub-Picomolar Recognition of Cr ³⁺ through Bioinspired Organic-Inorganic Ensemble Utilization. <i>ACS Sensors</i> , 2016 , 1, 663-669	9.2	17
36	Highly Directional 1D Supramolecular Assembly of New Diketopyrrolopyrrole-Based Gel for Organic Solar Cell Applications. <i>Langmuir</i> , 2016 , 32, 4346-51	4	37
35	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> , 2016 , 2016, 3900-3911	2.3	27
34	Vortex-aligned fullerene nanowhiskers as a scaffold for orienting cell growth. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15667-73	9.5	90
33	Nanoporous carbon sensor with cage-in-fiber structure: highly selective aniline adsorbent toward cancer risk management. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2930-4	9.5	57
32	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> , 2013 , 135, 13914-26	16.4	46
31	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> , 2013 , 3, 21365	3.7	7
30	Hydrogen-bond-driven homogeneous intercalation for rapid, reversible, and ultra-precise actuation of layered clay nanosheets. <i>Chemical Communications</i> , 2013 , 49, 3631-3	5.8	19
29	Acentric 2-D ensembles of D-br-A electron-transfer chromophores via vectorial orientation within amphiphilic α -helix bundle peptides for photovoltaic device applications. <i>Langmuir</i> , 2012 , 28, 3227-38	4	6
28	Electrochemical-coupling layer-by-layer (ECC-LbL) assembly. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7348-51	16.4	131
27	Manipulation of thin film assemblies: Recent progress and novel concepts. <i>Current Opinion in Colloid and Interface Science</i> , 2011 , 16, 459-469	7.6	18
26	Structural investigations of hexadecafluoro(phthalocyaninato)ruthenium(II) F16PcRu with EXAFS spectroscopy. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011 , 15, 598-601	1.8	3
25	Interferometric enhancement of x-ray reflectivity from unperturbed Langmuir monolayers of amphiphiles at the liquid-gas interface. <i>Physical Review E</i> , 2010 , 81, 021604	2.4	15
24	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> , 2010 , 132, 6998-7008	16.4	17
23	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> , 2010 , 132, 11083-92	16.4	22
22	Portable UV-visible spectrometer for measuring absorbance and dichroism of Langmuir monolayers at air-water interfaces. <i>Review of Scientific Instruments</i> , 2009 , 80, 033102	1.7	7

21	Investigations on the Structural, Morphological, Electrical, and Magnetic Properties of CuFe ₂ O ₄ /Bi ₂ O ₃ Nanocomposites. <i>Chemistry of Materials</i> , 2008 , 20, 429-439	9.6	63
20	Structural Investigations on Nanocomposite Mixed Metal Oxide Powders Used in Surface Catalysis. <i>Zeitschrift Fur Physikalische Chemie</i> , 2008 , 222, 1023-1038	3.1	
19	Mechanistic Studies on the Nucleation of Zinc Sulphide Nanoparticles by Means of XAFS Spectroscopy. <i>Zeitschrift Fur Physikalische Chemie</i> , 2008 , 222, 655-669	3.1	4
18	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> , 2007 , 111, 7501-18	3.4	14
17	LaSrCoFeO and Fe ₂ O ₃ /LaSrCoFeO Powders: Synthesis and Characterization. <i>Chemistry of Materials</i> , 2007 , 19, 2796-2808	9.6	41
16	EXAFS and XANES Investigations of CuFe ₂ O ₄ Nanoparticles and CuFe ₂ O ₄ /MO ₂ (M = Sn, Ce) Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16724-16733	3.8	52
15	Structural investigations on the hydrolysis and condensation behavior of pure and chemically modified alkoxides. 2. Germanium alkoxides. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7519-28	3.4	11
14	Structural studies on ruthenium(II) complexes used in interphase catalysis for the hydrogenation of ketones. <i>Applied Organometallic Chemistry</i> , 2007 , 21, 161-171	3.1	1
13	Highly Dispersed Mixed Zirconia and Hafnia Nanoparticles in a Silica Matrix: First Example of a ZrO ₂ /HfO ₂ /BiO ₂ Ternary Oxide System. <i>Advanced Functional Materials</i> , 2007 , 17, 1671-1681	15.6	36
12	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> , 2006 , 20, 203-213	3.1	51
11	Synthesis, EPR, electrochemistry and EXAFS studies of ruthenium(III) complexes with a symmetrical tetradentate N ₂ O ₂ Schiff base. <i>Inorganica Chimica Acta</i> , 2006 , 359, 1114-1120	2.7	13
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7	Synthesis, characterization and optical limiting properties of a gallium phthalocyanine dimer. <i>Journal of Materials Chemistry</i> , 2005 , 15, 683		47
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