Srinivasa R Telukutla

List of Publications by Year
in descending order

237 papers	9,173 citations	30070 54 h-index	66911 78 g-index
248 all docs	248 docs citations	248 times ranked	11562 citing authors

#	Article	IF	Citations
1	Laying Waste to Mercury: Inexpensive Sorbents Made from Sulfur and Recycled Cooking Oils. Chemistry - A European Journal, 2017, 23, 16219-16230.	3.3	185
2	Gold Nanoparticle Formation during Bromoaurate Reduction by Amino Acids. Langmuir, 2005, 21, 5949-5956.	3.5	179
3	Grapheneâ€“Gold Nanoparticles Hybridâ€”Synthesis, Functionalization, and Application in a Electrochemical and Surface-Enhanced Raman Scattering Biosensor. Materials, 2016, 9, 406.	2.9	166
4	Design, synthesis and biological evaluation of 1,3-diphenyl-1 H -pyrazole derivatives containing benzimidazole skeleton as potential anticancer and apoptosis inducing agents. European Journal of Medicinal Chemistry, 2015, 101, 790-805.	5.5	156
5	MnO_x Nanoparticle-Dispersed CeO₂ Nanocubes: A Remarkable Heteronanostructured System with Unusual Structural Characteristics and Superior Catalytic Performance. ACS Applied Materials & Interfaces, 2015, 7, 16525-16535.	8.0	154
6	Fe-doped CeO₂ nanorods for enhanced peroxidase-like activity and their application towards glucose detection. Journal of Materials Chemistry B, 2016, 4, 3874-3885.	5.8	151
7	Shape dependent electrocatalytic behaviour of silver nanoparticles. CrystEngComm, 2010, 12, 4280.	2.6	144
8	Designing CuO_x Nanoparticle-Decorated CeO₂ Nanocubes for Catalytic Soot Oxidation: Role of the Nanointerface in the Catalytic Performance of Heterostructured Nanomaterials. Langmuir, 2016, 32, 2208-2215.	3.5	127
9	Detect, Remove and Reuse: A New Paradigm in Sensing and Removal of Hg (II) from Wastewater via SERS-Active ZnO/Ag Nanoarrays. Environmental Science & Technology, 2015, 49, 1578-1584.	10.0	122
10	Ceriaâ€“zirconia modified MnO_x catalysts for gaseous elemental mercury oxidation and adsorption. Catalysis Science and Technology, 2016, 6, 1792-1803.	4.1	122
11	Nanowire Morphology of Mono- and Bidoped Î±-MnO₂ Catalysts for Remarkable Enhancement in Soot Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 32652-32666.	8.0	116
12	Oxygen-deficient photostable Cu₂O for enhanced visible light photocatalytic activity. Nanoscale, 2018, 10, 6039-6050.	5.6	115
13	Structure-activity relationships of nanoscale MnOx/CeO2 heterostructured catalysts for selective oxidation of amines under eco-friendly conditions. Applied Catalysis B: Environmental, 2016, 185, 213-224.	20.2	114
14	High-Temperature Anodized WO₃ Nanoplatelet Films for Photosensitive Devices. Langmuir, 2009, 25, 9545-9551.	3.5	111
15	Defining the role of humidity in the ambient degradation of few-layer black phosphorus. 2D Materials, 2017, 4, 015025.	4.4	110
16	Spirooxindole-derived morpholine-fused-1,2,3-triazoles: Design, synthesis, cytotoxicity and apoptosis inducing studies. European Journal of Medicinal Chemistry, 2015, 102, 413-424.	5.5	107
17	UV-Switchable Polyoxometalate Sandwiched between TiO₂and Metal Nanoparticles for Enhanced Visible and Solar Light Photococatalysis. Langmuir, 2011, 27, 9245-9252.	3.5	100
18	Highly Selective Hydrogenation of Biomass-Derived Furfural into Furfuryl Alcohol Using a Novel Magnetic Nanoparticles Catalyst. Energy & Fuels, 2016, 30, 2216-2226.	5.1	100

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19	Innovative Molecular Design Strategies in Materials Science Following the Aurophilicity Concept. Chemical Reviews, 2020, 120, 7551-7591.	47.7	98
20	Co₃O₄@CeO₂ hybrid flower-like microspheres: a strong synergistic peroxidase-mimicking artificial enzyme with high sensitivity for glucose detection. Journal of Materials Chemistry B, 2017, 5, 720-730.	5.8	96
21	Combining additive manufacturing and catalysis: a review. Catalysis Science and Technology, 2017, 7, 3421-3439.	4.1	96
22	Decoration of TiO₂ Nanotubes with Metal Nanoparticles Using Polyoxometalate as a UV-Switchable Reducing Agent for Enhanced Visible and Solar Light Photocatalysis. Langmuir, 2012, 28, 14470-14475.	3.5	92
23	Gold nanospikes formed through a simple electrochemical route with high electrocatalytic and surface enhanced Raman scattering activity. Chemical Communications, 2009, , 5039.	4.1	90
24	Highly efficient nanosized Mn and Fe codoped ceria-based solid solutions for elemental mercury removal at low flue gas temperatures. Catalysis Science and Technology, 2015, 5, 2913-2924.	4.1	86
25	Gold Nanoparticle-Decorated Keggin Ions/TiO₂Photococatalyst for Improved Solar Light Photocatalysis. Langmuir, 2011, 27, 6661-6667.	3.5	83
26	Low-temperature CO oxidation over manganese, cobalt, and nickel doped CeO₂ nanorods. RSC Advances, 2016, 6, 80541-80548.	3.6	83
27	Catalytic oxidation and adsorption of elemental mercury over nanostructured CeO₂â€“MnO_x catalyst. RSC Advances, 2015, 5, 30331-30341.	3.6	82
28	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO₂. Nanoscale, 2017, 9, 19162-19175.	5.6	81
29	Synthesis and biological evaluation of new benzimidazole-thiazolidinedione hybrids as potential cytotoxic and apoptosis inducing agents. European Journal of Medicinal Chemistry, 2016, 124, 608-621.	5.5	80
30	Probing the effect of charge transfer enhancement in off resonance mode SERS via conjugation of the probe dye between silver nanoparticles and metal substrates. Physical Chemistry Chemical Physics, 2013, 15, 12920.	2.8	77
31	Highly efficient cerium dioxide nanocube-based catalysts for low temperature diesel soot oxidation: the cooperative effect of cerium- and cobalt-oxides. Catalysis Science and Technology, 2015, 5, 3496-3500.	4.1	75
32	Synthesis and biological evaluation of pyrazoloâ€“triazole hybrids as cytotoxic and apoptosis inducing agents. Organic and Biomolecular Chemistry, 2015, 13, 10136-10149.	2.8	75
33	Flower-like Mn3O4/CeO2 microspheres as an efficient catalyst for diesel soot and CO oxidation: Synergistic effects for enhanced catalytic performance. Applied Surface Science, 2019, 473, 209-221.	6.1	75
34	Oxidation of Benzyl Alcohol to Benzaldehyde by tert-Butyl Hydroperoxide over Nanogold Supported on TiO₂ and other Transition and Rare-Earth Metal Oxides. Industrial & Engineering Chemistry Research, 2009, 48, 9471-9478.	3.7	74
35	Structural characterization and catalytic evaluation of transition and rare earth metal doped ceria-based solid solutions for elemental mercury oxidation. RSC Advances, 2013, 3, 12963.	3.6	73
36	High Efficiency Conversion of Glycerol to 1,3-Propanediol Using a Novel Platinumâ€“Tungsten Catalyst Supported on SBA-15. Industrial & Engineering Chemistry Research, 2015, 54, 9104-9115.	3.7	72

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37	Abatement of Gas-Phase Mercuryâ€"Recent Developments. Catalysis Reviews - Science and Engineering, 2012, 54, 344-398.	12.9	70
38	Copper Oxide Nanoparticles Supported on Graphene Oxideâ€•Catalyzed Sâ€Arylation: An Efficient and Ligandâ€Free Synthesis of Aryl Sulfides. Advanced Synthesis and Catalysis, 2013, 355, 2297-2307.	4.3	69
39	Heterostructured Copperâ€"Ceria and Ironâ€"Ceria Nanorods: Role of Morphology, Redox, and Acid Properties in Catalytic Diesel Soot Combustion. Langmuir, 2018, 34, 2663-2673.	3.5	68
40	Conventional and microwave-assisted synthesis of new 1 H -benzimidazole-thiazolidinedione derivatives: A potential anticancer scaffold. European Journal of Medicinal Chemistry, 2017, 138, 234-245.	5.5	66
41	Multi-directional electrodeposited gold nanospikes for antibacterial surface applications. Nanoscale Advances, 2019, 1, 203-212.	4.6	65
42	Pyrazolo-benzothiazole hybrids: Synthesis, anticancer properties and evaluation of antiangiogenic activity using inÂvitro VEGFR-2 kinase and inÂvivo transgenic zebrafish model. European Journal of Medicinal Chemistry, 2019, 182, 111609.	5.5	65
43	Dinuclear Cycloaurated Complexes Containing Bridging (2-Diphenylphosphino)phenylphosphine and (2-Diethylphosphino)phenylphosphine, C6H4PR2(R = Ph, Et). Carbonâ^'Carbon Bond Formation by Reductive Elimination at a Gold(II)â^'Gold(II) Center. Journal of the American Chemical Society, 1996, 118, 10469-10478.	13.7	63
44	Excellent fluoride decontamination and antibacterial efficacy of Feâ€"Caâ€"Zr hybrid metal oxide nanomaterial. Journal of Colloid and Interface Science, 2015, 457, 289-297.	9.4	62
45	H2O-mediated isatin spiro-epoxide ring opening with NaCN: Synthesis of novel 3-tetrazolylmethyl-3-hydroxy-oxindole hybrids and their anticancer evaluation. European Journal of Medicinal Chemistry, 2015, 104, 11-24.	5.5	61
46	Exploration of carbamide derived pyrimidine-thioindole conjugates as potential VEGFR-2 inhibitors with anti-angiogenesis effect. European Journal of Medicinal Chemistry, 2020, 200, 112457.	5.5	61
47	Porous crystalline frameworks for thermocatalytic CO₂ reduction: an emerging paradigm. Energy and Environmental Science, 2021, 14, 320-352.	30.8	61
48	Design, synthesis and apoptosis inducing effect of novel (Z)-3-(3â€²-methoxy-4â€²-(2-amino-2-oxoethoxy)-benzylidene)indolin-2-ones as potential antitumour agents. European Journal of Medicinal Chemistry, 2016, 118, 34-46.	5.5	60
49	Activity and Selectivity of Platinumâ€"Copper Bimetallic Catalysts Supported on Mordenite for Glycerol Hydrogenolysis to 1,3-Propanediol. Industrial & Engineering Chemistry Research, 2016, 55, 4461-4472.	3.7	59
50	Hydrogenolysis of Lignin-Derived Aromatic Ethers over Heterogeneous Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 3379-3407.	6.7	59
51	Quasi-Cubic Magnetite/Silica Core-Shell Nanoparticles as Enhanced MRI Contrast Agents for Cancer Imaging. PLoS ONE, 2011, 6, e21857.	2.5	58
52	Dinuclear Complexes of Gold(I) Containing Bridging Cyclometalated Arylphosphane or Arylarsane Ligands. Angewandte Chemie International Edition in English, 1987, 26, 258-260.	4.4	57
53	Novel and Highly Efficient Strategy for the Green Synthesis of Soluble Graphene by Aqueous Polyphenol Extracts of Eucalyptus Bark and Its Applications in High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 11612-11620.	6.7	57
54	Galvanic Replacement of Semiconductor Phase I CuTCNQ Microrods with KAuBr₄ to Fabricate CuTCNQ/Au Nanocomposites with Photocatalytic Properties. Inorganic Chemistry, 2011, 50, 1705-1712.	4.0	56

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55	Synthesis and biological evaluation of 5,10-dihydro-11 H -dibenzo[b,e][1,4]diazepin-11-one structural derivatives as anti-cancer and apoptosis inducing agents. European Journal of Medicinal Chemistry, 2016, 108, 674-686.	5.5	56
56	Solvent-free microwave-assisted synthesis of solketal from glycerol using transition metal ions promoted mordenite solid acid catalysts. Molecular Catalysis, 2017, 434, 184-193.	2.0	56
57	evaluation and apoptosis inducing studies. European Journal of Medicinal Chemistry, 2016, 122, 584-600.	5.5	55
58	Co3O4 needles on Au honeycomb as a non-invasive electrochemical biosensor for glucose in saliva. Biosensors and Bioelectronics, 2019, 141, 111479.	10.1	54
59	Coupling of Cyclometalated Phenylphosphanes in Dinuclear Gold(II)-Complexes. Angewandte Chemie International Edition in English, 1987, 26, 260-261.	4.4	53
60	Design, synthesis and biological evaluation of N -((1-benzyl-1 H -1,2,3-triazol-4-yl)methyl)-1,3-diphenyl-1 H -pyrazole-4-carboxamides as CDK1/Cdc2 inhibitors. European Journal of Medicinal Chemistry, 2016, 122, 164-177.	5.5	52
61	Cyclic-RGDfK peptide conjugated succinoyl-TPGS nanomicelles for targeted delivery of docetaxel to integrin receptor over-expressing angiogenic tumours. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1511-1520.	3.3	51
62	Synthesis and biological evaluation of cis -restricted triazole/tetrazole mimics of combretastatin-benzothiazole hybrids as tubulin polymerization inhibitors and apoptosis inducers. Bioorganic and Medicinal Chemistry, 2017, 25, 977-999.	3.0	51
63	Nanocrystalline Magnesium Oxide Stabilized Palladium(0): An Efficient Reusable Catalyst for Room Temperature Selective Aerobic Oxidation of Alcohols. Advanced Synthesis and Catalysis, 2011, 353, 606-616.	4.3	50
64	4 Î² -amidotriazole linked podophyllotoxin congeners: DNA topoisomerase-IIÎ± inhibition and potential anticancer agents for prostate cancer. European Journal of Medicinal Chemistry, 2018, 144, 595-611.	5.5	50
65	Recent advances in preparation methods for catalytic thin films and coatings. Catalysis Science and Technology, 2019, 9, 3582-3602.	4.1	50
66	Synthesis, Structure, and Reactions of a Binuclear Gold(I)â^'Gold(III) Complex Containing Bridging and Bidentate (2-Diphenylphosphino-6-methyl)phenyl Groups. Organometallics, 2000, 19, 5628-5635.	2.3	49
67	Synthesis of thiazole linked indolyl-3-glyoxylamide derivatives as tubulin polymerization inhibitors. European Journal of Medicinal Chemistry, 2017, 138, 83-95.	5.5	49
68	Mercury in natural gas streams: A review of materials and processes for abatement and remediation. Journal of Hazardous Materials, 2020, 382, 121036.	12.4	49
69	Controlled nitrogen insertion in titanium dioxide for optimal photocatalytic degradation of atrazine. RSC Advances, 2015, 5, 44041-44052.	3.6	48
70	Synthesis of (Z)-1-(1,3-diphenyl-1 H -pyrazol-4-yl)-3-(phenylamino)prop-2-en-1-one derivatives as potential anticancer and apoptosis inducing agents. European Journal of Medicinal Chemistry, 2016, 117, 157-166.	5.5	47
71	Ordered Monolayer Gold Nano-urchin Structures and Their Size Induced Control for High Gas Sensing Performance. Scientific Reports, 2016, 6, 24625.	3.3	47
72	Advances in diphosphine ligand-containing gold complexes as anticancer agents. Coordination Chemistry Reviews, 2019, 388, 343-359.	18.8	47

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73	Reusable surface confined semi-conducting metal-TCNQ and metal-TCNQF4 catalysts for electron transfer reactions. RSC Advances, 2013, 3, 4440.	3.6	46
74	Structural evaluation and catalytic performance of nano-Au supported on nanocrystalline Ce_{0.9}Fe_{0.1}O_{2â^'Î´} solid solution for oxidation of carbon monoxide and benzylamine. RSC Advances, 2014, 4, 43460-43469.	3.6	46
75	Micro/nanofiber-based noninvasive devices for health monitoring diagnosis and rehabilitation. Applied Physics Reviews, 2020, 7, .	11.3	46
76	Complexes of platinum(II), platinum(IV), rhodium(III) and iridium(III) containing orthometallated triphenylphosphine. Dalton Transactions RSC, 2000, , 3537-3545.	2.3	45
77	Nanoscale Cobaltâ€“Manganese Oxide Catalyst Supported on Shape-Controlled Cerium Oxide: Effect of Nanointerface Configuration on Structural, Redox, and Catalytic Properties. Langmuir, 2017, 33, 1743-1750.	3.5	45
78	In Vitro and In Vivo Toxicity and Biodistribution of Paclitaxel-Loaded Cubosomes as a Drug Delivery Nanocarrier: A Case Study Using an A431 Skin Cancer Xenograft Model. ACS Applied Bio Materials, 2020, 3, 4198-4207.	4.6	45
79	Gold nanospikes based microsensor as a highly accurate mercury emission monitoring system. Scientific Reports, 2014, 4, 6741.	3.3	44
80	Cyclic RGDfK Peptide Functionalized Polymeric Nanocarriers for Targeting Gemcitabine to Ovarian Cancer Cells. Molecular Pharmaceutics, 2016, 13, 1491-1500.	4.6	44
81	Synthesis of 2,3,6,7-tetramethoxyphenanthren-9-amine: An efficient precursor to access new 4- aza -2,3-dihydropyridophenanthrenes as apoptosis inducing agents. European Journal of Medicinal Chemistry, 2017, 127, 305-317.	5.5	43
82	Silicon as a ubiquitous contaminant in graphene derivatives with significant impact on device performance. Nature Communications, 2018, 9, 5070.	12.8	42
83	Synthesis and interconversions of digold(i), tetragold(i), digold(ii), gold(i)â€“gold(iii) and digold(iii) complexes of fluorine-substituted aryl carbanions. Dalton Transactions, 2009, , 7537.	3.3	41
84	Selective detection of elemental mercury vapor using a surface acoustic wave (SAW) sensor. Analyst, The, 2015, 140, 5508-5517.	3.5	41
85	Quadrupolar (A-Ï€-D-Ï€-A) Tetra-aryl 1,4-Dihydropyrrolo[3,2-b]pyrroles as Single Molecular Resistive Memory Devices: Substituent Triggered Amphoteric Redox Performance and Electrical Bistability. Journal of Physical Chemistry C, 2016, 120, 11313-11323.	3.1	41
86	Low-Temperature Hydrogen Sensor: Enhanced Performance Enabled through Photoactive Pd-Decorated TiO₂ Colloidal Crystals. ACS Sensors, 2020, 5, 3902-3914.	7.8	41
87	Cinnamide derived pyrimidine-benzimidazole hybrids as tubulin inhibitors: Synthesis, in silico and cell growth inhibition studies. Bioorganic Chemistry, 2021, 110, 104765.	4.1	41
88	3-D nanorod arrays of metalâ€“organic KTCNQ semiconductor on textiles for flexible organic electronics. RSC Advances, 2013, 3, 17654.	3.6	40
89	Cycloaurated complexes of aryl carbanions: Digold(I), Digold(II) and beyond. Coordination Chemistry Reviews, 2013, 257, 2250-2273.	18.8	40
90	Synthesis and biological evaluation of podophyllotoxin congeners as tubulin polymerization inhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 5466-5475.	3.0	40

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91	Nanosphere Monolayer on a Transducer for Enhanced Detection of Gaseous Heavy Metal. ACS Applied Materials & Interfaces, 2015, 7, 1491-1499.	8.0	40
92	Gelatin controversies in food, pharmaceuticals, and personal care products: Authentication methods, current status, and future challenges. Critical Reviews in Food Science and Nutrition, 2018, 58, 1495-1511.	10.3	40
93	Synthesis of 2-aryl-1,2,4-oxadiazolo-benzimidazoles: Tubulin polymerization inhibitors and apoptosis inducing agents. Bioorganic and Medicinal Chemistry, 2015, 23, 4608-4623.	3.0	38
94	Functionalization of Elongated Tetrahexahedral Au Nanoparticles and Their Antimicrobial Activity Assay. ACS Applied Materials & Interfaces, 2019, 11, 13450-13459.	8.0	38
95	Metalâ€“acid bifunctional catalysts for selective hydrogenolysis of glycerol under atmospheric pressure: A highly selective route to produce propanols. Applied Catalysis A: General, 2015, 498, 88-98.	4.3	37
96	ZIF-C for targeted RNA interference and CRISPR/Cas9 based gene editing in prostate cancer. Chemical Communications, 2020, 56, 15406-15409.	4.1	37
97	A new paradigm for signal processing of Raman spectra using a smoothing free algorithm: Coupling continuous wavelet transform with signal removal method. Journal of Raman Spectroscopy, 2013, 44, 608-621.	2.5	36
98	Ga doped RGOâ€“TiO₂ composite on an ITO surface electrode for investigation of photoelectrocatalytic activity under visible light irradiation. New Journal of Chemistry, 2015, 39, 369-376.	2.8	36
99	Candle-Soot Derived Photoactive and Superamphiphobic Fractal Titania Electrode. Chemistry of Materials, 2016, 28, 7919-7927.	6.7	36
100	Fabrication of a novel ZnIn2S4/g-C3N4/graphene ternary nanocomposite with enhanced charge separation for efficient photocatalytic H2 evolution under solar light illumination. Photochemical and Photobiological Sciences, 2019, 18, 2952-2964.	2.9	36
101	Single step formation of biocompatible bimetallic alloy nanoparticles of gold and silver using isonicotinylhydrazide. Materials Science and Engineering C, 2019, 96, 286-294.	7.3	36
102	N-acetyl-d-glucosamine-conjugated PAMAM dendrimers as dual receptor-targeting nanocarriers for anticancer drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 154, 377-386.	4.3	36
103	Bimetallic Palladiumâ€“Nickel Nanoparticles Anchored on Carbon as High-Performance Electrocatalysts for Oxygen Reduction and Formic Acid Oxidation Reactions. ACS Applied Energy Materials, 2020, 3, 9285-9295.	5.1	36
104	Synthesis and biological evaluation of imidazopyridinyl-1,3,4-oxadiazole conjugates as apoptosis inducers and topoisomerase IÎ± inhibitors. Bioorganic Chemistry, 2016, 69, 7-19.	4.1	35
105	Gold(<scp>i</scp>) and gold(<scp>iii</scp>) phosphine complexes: synthesis, anticancer activities towards 2D and 3D cancer models, and apoptosis inducing properties. Dalton Transactions, 2018, 47, 15312-15323.	3.3	35
106	Catalytic performance of Pt/AlPO₄catalysts for selective hydrogenolysis of glycerol to 1,3-propanediol in the vapour phase. RSC Advances, 2014, 4, 51893-51903.	3.6	34
107	Synthesis of gold(I) phosphine complexes containing the 2-BrC 6 F 4 PPh 2 ligand: Evaluation of anticancer activity in 2D and 3D spheroidal models of HeLa cancer cells. European Journal of Medicinal Chemistry, 2018, 145, 291-301.	5.5	34
108	Synthesis and in vitro cytotoxicity evaluation of Î²-carboline-combretastatin carboxamides as apoptosis inducing agents: DNA intercalation and topoisomerase-II inhibition. Bioorganic and Medicinal Chemistry, 2019, 27, 3285-3298.	3.0	34

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109	Transfer Hydrogenation of Carbonyl Compounds Catalyzed by Ruthenium Nanoparticles Stabilized on Nanocrystalline Magnesium Oxide by Ionic Liquids. Advanced Synthesis and Catalysis, 2008, 350, 2231-2235.	4.3	33
110	Mercury vapor sensor enhancement by nanostructured gold deposited on nickel surfaces using galvanic replacement reactions. Journal of Materials Chemistry, 2012, 22, 21395.	6.7	33
111	Mercury-bearing wastes: Sources, policies and treatment technologies for mercury recovery and safe disposal. Journal of Environmental Management, 2020, 270, 110945.	7.8	33
112	MOF-derived ceria-zirconia supported Co3O4 catalysts with enhanced activity in CO2 methanation. Catalysis Today, 2020, 356, 519-526.	4.4	33
113	Adsorption of NO and CO over transition-metal-incorporated mesoporous catalytic materials. Journal of Colloid and Interface Science, 2005, 281, 171-178.	9.4	32
114	Facile conversion of zinc hydroxide carbonate to CaO-ZnO for selective CO2 gas detection. Journal of Colloid and Interface Science, 2020, 558, 310-322.	9.4	32
115	Vapour-Phase Hydrogenolysis of Glycerol to 1,3-Propanediol Over Supported Pt Catalysts: The Effect of Supports on the Catalytic Functionalities. Catalysis Letters, 2014, 144, 2129-2143.	2.6	31
116	Effect of MnO_x Loading on Structural, Surface, and Catalytic Properties of CeO₂â€MnO_x Mixed Oxides Prepared by Solâ€Gel Method. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 1141-1149.	1.2	30
117	Combining the UV-Switchability of Keggin Ions with a Galvanic Replacement Process to Fabricate TiO₂â€“Polyoxometalateâ€“Bimetal Nanocomposites for Improved Surface Enhanced Raman Scattering and Solar Light Photocatalysis. ACS Applied Materials & Interfaces, 2013, 5, 7007-7013.	8.0	29
118	4Î²-[4â€²-(1-(Aryl)ureido)benzamide]podophyllotoxins as DNA topoisomerase I and IIÎ± inhibitors and apoptosis inducing agents. Bioorganic and Medicinal Chemistry, 2013, 21, 5198-5208.	3.0	28
119	Promising Ni/Al-SBA-15 catalysts for hydrodeoxygenation of dibenzofuran into fuel grade hydrocarbons: synergetic effect of Ni and Al-SBA-15 support. RSC Advances, 2016, 6, 25992-26002.	3.6	28
120	Anti-cancer gold(I) phosphine complexes: Cyclic trimers and tetramers containing the P-Au-P moiety. Journal of Inorganic Biochemistry, 2017, 175, 1-8.	3.5	28
121	Microwave-assisted one-pot synthesis of new phenanthrene fused-tetrahydrodibenzo-acridinones as potential cytotoxic and apoptosis inducing agents. European Journal of Medicinal Chemistry, 2018, 151, 173-185.	5.5	28
122	Straddled Band Aligned CuO/BaTiO₃ Heterostructures: Role of Energetics at Nanointerface in Improving Photocatalytic and CO₂ Sensing Performance. ACS Applied Nano Materials, 2018, 1, 3375-3388.	5.0	27
123	Self-Assembled Functional Nanostructure of Plasmid DNA with Ionic Liquid [Bmim][PF₆]: Enhanced Efficiency in Bacterial Gene Transformation. Langmuir, 2015, 31, 4722-4732.	3.5	26
124	Thermally decomposed mesoporous Nickel Iron hydrotalcite: An active solid-base catalyst for solvent-free Knoevenagel condensation. Journal of Colloid and Interface Science, 2015, 441, 52-58.	9.4	26
125	Electrochemical Detection of As (III) on a Manganese Oxideâ€Ceria (Mn₂O₃/CeO₂) Nanocube Modified Au Electrode. Electroanalysis, 2018, 30, 928-936.	2.9	26
126	PdO/CuO Nanoparticles on Zeolite-Y for Nitroarene Reduction and Methanol Oxidation. ACS Applied Nano Materials, 2019, 2, 3769-3779.	5.0	26

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127	A Triad of Bis(orthometalated) d⁸-Complexes Containing Four-Membered Rings. Organometallics, 2008, 27, 5361-5370.	2.3	25
128	Performance assessment and hydrodynamic analysis of a submerged membrane bioreactor for treating dairy industrial effluent. Journal of Hazardous Materials, 2014, 274, 300-313.	12.4	25
129	Synthesis and biological evaluation of 4-aza-2,3-dihydropyridophenanthrolines as tubulin polymerization inhibitors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3356-3360.	2.2	25
130	Synthesis of 2-anilinopyridylâ€“triazole conjugates as antimitotic agents. Organic and Biomolecular Chemistry, 2015, 13, 4879-4895.	2.8	25
131	MOF-derived noble-metal-free Cu/CeO₂ with high porosity for the efficient waterâ€“gas shift reaction at low temperatures. Catalysis Science and Technology, 2019, 9, 4226-4231.	4.1	25
132	Process optimization using response surface methodology for the removal of thorium from aqueous solutions using rice-husk. Chemosphere, 2019, 237, 124488.	8.2	25
133	Optimization of glucose formation in karanja biomass hydrolysis using Taguchi robust method. Bioresource Technology, 2014, 166, 534-540.	9.6	24
134	One-pot synthesis of podophyllotoxinâ€“thiourea congeners by employing NH2SO3H/NaI: Anticancer activity, DNA topoisomerase-II inhibition, and apoptosis inducing agents. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4239-4244.	2.2	24
135	Design and synthesis of 4â€²-O-alkylamino-tethered-benzylideneindolin-2-ones as potent cytotoxic and apoptosis inducing agents. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4061-4069.	2.2	23
136	Vanadium pentoxide nanoparticle mediated perturbations in cellular redox balance and the paradigm of autophagy to apoptosis. Free Radical Biology and Medicine, 2020, 161, 198-211.	2.9	23
137	Study of thermal behavior of deoiled karanja seed cake biomass: thermogravimetric analysis and pyrolysis kinetics. Energy Science and Engineering, 2016, 4, 86-95.	4.0	22
138	Direct Hydrogenolysis of Glycerol to Biopropanols over Metal Phosphate Supported Platinum Catalysts. Catalysis Letters, 2017, 147, 845-855.	2.6	22
139	Antitumor and Antiangiogenic Properties of Gold(III) Complexes Containing Cycloaurated Triphenylphosphine Sulfide Ligands. Inorganic Chemistry, 2020, 59, 5662-5673.	4.0	22
140	Highly Selective CO₂ Gas Sensing Properties of CaO-BaTiO₃ Heterostructures Effectuated through Discretely Created n-n Nanointerfaces. ACS Sustainable Chemistry and Engineering, 2018, 6, 4086-4097.	6.7	21
141	Ranolazine-Functionalized Copper Nanoparticles as a Colorimetric Sensor for Trace Level Detection of As3+. Nanomaterials, 2019, 9, 83.	4.1	21
142	Carbon Dioxide Reforming of Methane over Mesoporous Alumina Supported Ni(Co), Ni(Rh) Bimetallic, and Ni(CoRh) Trimetallic Catalysts: Role of Nanoalloying in Improving the Stability and Nature of Coking. Energy & Fuels, 2020, 34, 16433-16444.	5.1	21
143	The Transdermal Delivery of Therapeutic Cannabinoids. Pharmaceutics, 2022, 14, 438.	4.5	21
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