

Subrahmanyam Challapalli

List of Publications by Year in descending order

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121
papers

4,344
citations

109321

35
h-index

128289

60
g-index

123
all docs

123
docs citations

123
times ranked

4316
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, optoelectronic properties and applications of halide perovskites. <i>Chemical Society Reviews</i> , 2020, 49, 2869-2885.	38.1	282
2	Degradation and mineralization of methylene blue by dielectric barrier discharge non-thermal plasma reactor. <i>Chemical Engineering Journal</i> , 2013, 217, 41-47.	12.7	197
3	Catalytic abatement of volatile organic compounds assisted by non-thermal plasma. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 150-156.	20.2	176
4	Abatement of mixture of volatile organic compounds (VOCs) in a catalytic non-thermal plasma reactor. <i>Journal of Hazardous Materials</i> , 2012, 237-238, 283-289.	12.4	133
5	NiO/Ce _{1-x} Ni _x O ₂ as an alternative to noble metal catalysts for CO oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 730-736.	4.1	123
6	Novel catalytic non-thermal plasma reactor for the abatement of VOCs. <i>Chemical Engineering Journal</i> , 2007, 134, 78-83.	12.7	120
7	Improved performance of non-thermal plasma reactor during decomposition of trichloroethylene: Optimization of the reactor geometry and introduction of catalytic electrode. <i>Applied Catalysis B: Environmental</i> , 2007, 74, 270-277.	20.2	118
8	Green Approach for Wastewater Treatment – Degradation and Mineralization of Aqueous Organic Pollutants by Discharge Plasma. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 11097-11103.	3.7	116
9	Dynamic behaviour of activated carbon catalysts during ozone decomposition at room temperature. <i>Applied Catalysis B: Environmental</i> , 2005, 61, 98-106.	20.2	106
10	Production of hydrogen and sulfur from hydrogen sulfide assisted by nonthermal plasma. <i>Applied Energy</i> , 2012, 95, 87-92.	10.1	91
11	Catalytic non-thermal plasma reactor for abatement of toluene. <i>Chemical Engineering Journal</i> , 2010, 160, 677-682.	12.7	90
12	Atmospheric pressure non-thermal plasma jet for the degradation of methylene blue in aqueous medium. <i>Chemical Engineering Journal</i> , 2015, 282, 116-122.	12.7	87
13	CO ₂ decomposition in a packed DBD plasma reactor: influence of packing materials. <i>RSC Advances</i> , 2016, 6, 39492-39499.	3.6	85
14	Catalytic non-thermal plasma reactor for mineralization of endosulfan in aqueous medium: A green approach for the treatment of pesticide contaminated water. <i>Chemical Engineering Journal</i> , 2014, 238, 157-163.	12.7	78
15	Simultaneous photocatalytic degradation of p-cresol and Cr (VI) by metal oxides supported reduced graphene oxide. <i>Molecular Catalysis</i> , 2018, 451, 87-95.	2.0	75
16	Effect of amino functionalized MWCNT on the crosslink density, fracture toughness of epoxy and mechanical properties of carbon epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 2083-2086.	7.6	74
17	Low-cost adsorbents from bio-waste for the removal of dyes from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4111-4124.	5.3	73
18	A promising plasma-catalytic approach towards single-step methane conversion to oxygenates at room temperature. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119735.	20.2	69

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19	Ni-Mn/ γ -Al ₂ O ₃ assisted plasma dry reforming of methane. <i>Catalysis Today</i> , 2018, 309, 212-218.	4.4	68
20	Catalytic abatement of volatile organic compounds assisted by non-thermal plasma. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 157-162.	20.2	66
21	Catalytic Nonthermal Plasma Reactor for Dry Reforming of Methane. <i>Energy & Fuels</i> , 2013, 27, 4441-4447.	5.1	65
22	The catalytic effect of MnO _x and CoO _x on the decomposition of nitrobenzene in a non-thermal plasma reactor. <i>Chemical Engineering Journal</i> , 2012, 180, 39-45.	12.7	63
23	CO ₂ reduction to syngas and carbon nanofibres by plasma-assisted in situ decomposition of water. <i>International Journal of Greenhouse Gas Control</i> , 2013, 16, 361-363.	4.6	63
24	Bio-waste derived adsorbent material for methylene blue adsorption. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 58, 500-508.	5.3	61
25	Phenol and Cr(VI) degradation with Mn ion doped ZnO under visible light photocatalysis. <i>RSC Advances</i> , 2017, 7, 43030-43039.	3.6	60
26	Production of hydrogen from hydrogen sulfide assisted by dielectric barrier discharge. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2204-2209.	7.1	50
27	Mo-doped BiVO ₄ @reduced graphene oxide composite as an efficient photoanode for photoelectrochemical water splitting. <i>Catalysis Today</i> , 2019, 325, 73-80.	4.4	50
28	Nonthermal Plasma Abatement of Trichloroethylene Enhanced by Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4315-4318.	3.1	49
29	Emerging materials for plasmon-assisted photoelectrochemical water splitting. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 51, 100472.	11.6	44
30	Control over relaxor, piezo-photocatalytic and energy storage properties in Na _{0.5} Bi _{0.5} TiO ₃ via processing methodologies. <i>Journal of Alloys and Compounds</i> , 2019, 798, 540-552.	5.5	43
31	Non-thermal atmospheric pressure plasma jet for the bacterial inactivation in an aqueous medium. <i>Science of the Total Environment</i> , 2018, 640-641, 493-500.	8.0	41
32	Catalytic nonthermal plasma reactor for the abatement of low concentrations of isopropanol. <i>Chemical Engineering Journal</i> , 2010, 165, 194-199.	12.7	40
33	Effect Of Nanoclay On The Toughness Of Epoxy And Mechanical, Impact Properties Of E-glass-epoxy Composites. <i>Advanced Materials Letters</i> , 2015, 6, 684-689.	0.6	40
34	Study of Short-Term Catalyst Deactivation Due to Carbon Deposition during Biogas Dry Reforming on Supported Ni Catalyst. <i>Energy & Fuels</i> , 2015, 29, 8047-8052.	5.1	38
35	Decoration of plasmonic Cu nanoparticles on WO ₃ /Bi ₂ S ₃ QDs heterojunction for enhanced photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7706-7715.	7.1	38
36	Ni and Cu oxide supported γ -Al ₂ O ₃ packed DBD plasma reactor for CO ₂ activation. <i>Journal of CO₂ Utilization</i> , 2021, 44, 101400.	6.8	38

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37	Partial oxidation of toluene by O ₂ over mesoporous Cr ³⁺ /AlPO. <i>Catalysis Communications</i> , 2002, 3, 45-50.	3.3	36
38	Bimetallic Pd ⁰ /Au/TiO ₂ Nanoparticles: An Efficient and Sustainable Heterogeneous Catalyst for Rapid Catalytic Hydrogen Transfer Reduction of Nitroarenes. <i>ACS Omega</i> , 2018, 3, 13065-13072.	3.5	36
39	Glass Beads Packed DBD-Plasma Assisted Dry Reforming of Methane. <i>Topics in Catalysis</i> , 2017, 60, 869-878.	2.8	35
40	Micro-mechanical interaction of activated fly ash mortar and reclaimed asphalt pavement materials. <i>Construction and Building Materials</i> , 2016, 123, 424-435.	7.2	34
41	Catalytic non-thermal plasma reactor for the decomposition of a mixture of volatile organic compounds. <i>Journal of Chemical Sciences</i> , 2013, 125, 673-678.	1.5	33
42	Reduced graphene oxide supported ZnO quantum dots for visible light-induced simultaneous removal of tetracycline and hexavalent chromium. <i>RSC Advances</i> , 2020, 10, 20494-20503.	3.6	33
43	Gold nanoparticle decorated bismuth sulfide nanorods for enhanced photoelectrochemical hydrogen production. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6398-6405.	5.5	32
44	Conducting polymer coated graphene oxide reinforced Ca ²⁺ -epoxy composites for enhanced electrical conduction. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 80, 237-243.	7.6	31
45	Single step conversion of methane to methanol assisted by nonthermal plasma. <i>Fuel Processing Technology</i> , 2018, 179, 32-41.	7.2	29
46	Influence of hydrogen peroxide on the simultaneous removal of Cr(VI) and methylene blue from aqueous medium under atmospheric pressure plasma jet. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2760-2767.	6.7	28
47	Toxicity of nanomaterials due to photochemical degradation and the release of heavy metal ions. <i>Nanoscale</i> , 2020, 12, 22049-22058.	5.6	28
48	Catalytic Non-thermal Plasma Reactor for Decomposition of Dilute Chlorobenzene. <i>Plasma Processes and Polymers</i> , 2013, 10, 1074-1080.	3.0	27
49	TiO ₂ Photoanodes Sensitized with Bi ₂ Se ₃ Nanoflowers for Visible-Near-Infrared Photoelectrochemical Water Splitting. <i>ACS Applied Nano Materials</i> , 2021, 4, 739-745.	5.0	27
50	Facile non thermal plasma based desorption of self assembled monolayers for achieving low temperature and low pressure Cu ⁰ /Cu thermo-compression bonding. <i>RSC Advances</i> , 2015, 5, 103643-103648.	3.6	26
51	Dry Reforming of Methane in DBD Plasma over Ni-Based Catalysts: Influence of Process Conditions and Support on Performance and Durability. <i>Energy Technology</i> , 2019, 7, 1801008.	3.8	26
52	A facile method to decompose CO ₂ using a g-C ₃ N ₄ -assisted DBD plasma reactor. <i>Environmental Research</i> , 2020, 183, 109286.	7.5	25
53	NTP reactor for a single stage methane conversion to methanol: Influence of catalyst addition and effect of promoters. <i>Chemical Engineering Journal</i> , 2019, 372, 638-647.	12.7	24
54	Catalytic DBD plasma approach for methane partial oxidation to methanol under ambient conditions. <i>Catalysis Today</i> , 2019, 337, 117-125.	4.4	24

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55	Mineralization of Phenol in Water by Catalytic Non-thermal Plasma Reactor – An Eco-friendly Approach for Wastewater Treatment. <i>Plasma Processes and Polymers</i> , 2013, 10, 1010-1017.	3.0	23
56	Non-thermal discharge plasma promoted redox transformation of arsenic(III) and chromium(VI) in an aqueous medium. <i>Chemical Engineering Journal</i> , 2017, 329, 211-219.	12.7	23
57	Photocatalytic hydrogenation of nitroarenes: supporting effect of CoO _x on TiO ₂ nanoparticles. <i>New Journal of Chemistry</i> , 2019, 43, 748-754.	2.8	22
58	g-C ₃ N ₄ promoted DBD plasma assisted dry reforming of methane. <i>Energy</i> , 2019, 183, 630-638.	8.8	22
59	Plasmonic Bi nanoparticle decorated BiVO ₄ /rGO as an efficient photoanode for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7779-7787.	7.1	22
60	Nano-sized Recyclable PdO Supported Carbon Nanostructures for Heck Reaction: Influence of Carbon Materials. <i>ChemistrySelect</i> , 2017, 2, 2700-2707.	1.5	21
61	Bismuth sulfide nanocrystals and gold nanorods increase the photovoltaic response of a TiO ₂ /CdS based cell. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 296-306.	6.2	21
62	Efficient solar water splitting using a CdS quantum dot decorated TiO ₂ /Ag ₂ Se photoanode. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34079-34088.	7.1	21
63	Investigation on the physicochemical properties of Ce _{0.8} Eu _{0.1} M _{0.1} O ₂ (M = Zr, Hf, La, and Sm) solid solutions towards soot combustion. <i>New Journal of Chemistry</i> , 2018, 42, 5276-5283.	2.8	20
64	Low-cost adsorbent derived from the coconut shell for the removal of hexavalent chromium from aqueous medium. <i>Materials Today: Proceedings</i> , 2020, 26, 44-51.	1.8	20
65	Facile Synthesis and Photoelectrochemical Performance of a Bi ₂ S ₃ @rGO Nanocomposite Photoanode for Efficient Water Splitting. <i>Energy & Fuels</i> , 2021, 35, 6315-6321.	5.1	20
66	Hydrogen production from hydrogen sulfide in a packed-bed DBD reactor. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8217-8222.	7.1	19
67	Recyclable Pd/CuFe ₂ O ₄ nanowires: a highly active catalyst for C–C couplings and synthesis of benzofuran derivatives. <i>RSC Advances</i> , 2018, 8, 21030-21039.	3.6	19
68	Fabrication of Pd/CuFe ₂ O ₄ hybrid nanowires: a heterogeneous catalyst for Heck couplings. <i>New Journal of Chemistry</i> , 2018, 42, 1646-1654.	2.8	18
69	A Facile Approach for Direct Decomposition of Nitrous Oxide Assisted by Non-thermal Plasma. <i>Plasma Processes and Polymers</i> , 2013, 10, 444-450.	3.0	17
70	Cuprous Sulfide@Carbon nanostructures based counter electrodes with cadmium sulfide/titania photoanode for liquid junction solar cells. <i>Electrochimica Acta</i> , 2018, 278, 374-384.	5.2	17
71	PVP-PS supported ultra-small Pd nanoparticles for the room temperature reduction of 4-nitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103899.	6.7	17
72	Catalytic nonthermal plasma assisted co-processing of methane and nitrous oxide for methanol production. <i>Catalysis Today</i> , 2015, 256, 102-107.	4.4	16

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73	One pot synthesis of CdS/TiO ₂ hetero-nanostructures for enhanced H ₂ production from water and removal of pollutants from aqueous streams. <i>Materials Research Bulletin</i> , 2016, 73, 377-384.	5.2	16
74	Cu-ZnO for visible light induced mineralization of Bisphenol-A: Impact of Cu ion doping. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103057.	6.7	16
75	Influence of Bi ³⁺ /Cu microstructure on the photoelectrochemical performance of BiVO ₄ photoanode for efficient water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2021, 232, 111354.	6.2	16
76	Plasmonic nanometal decorated photoanodes for efficient photoelectrochemical water splitting. <i>Catalysis Today</i> , 2021, 379, 1-6.	4.4	16
77	Mechano-optical Modulation of Excitons and Carrier Recombination in Self-Assembled Halide Perovskite Quantum Dots. <i>ACS Nano</i> , 2022, 16, 160-168.	14.6	16
78	Degradation and mineralization of aqueous phenol by an atmospheric pressure catalytic plasma reactor. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3780-3786.	6.7	15
79	NTP-assisted partial oxidation of methane to methanol: effect of plasma parameters on glass-packed DBD. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 015204.	2.8	15
80	Oxidative treatment of crude pharmaceutical industry effluent by hydrodynamic cavitation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104281.	6.7	15
81	A photoanode with plasmonic nanoparticles of earth abundant bismuth for photoelectrochemical reactions. <i>Nanoscale Advances</i> , 2020, 2, 5591-5599.	4.6	15
82	Plasmonic Au nanoparticle sandwiched CuBi ₂ O ₄ /Sb ₂ S ₃ photocathode with multi-mediated electron transfer for efficient solar water splitting. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3961-3974.	4.9	15
83	Catalytic DBD plasma reactor for CO oxidation by in situ N ₂ O decomposition. <i>Catalysis Today</i> , 2013, 211, 53-57.	4.4	14
84	An industrial insight on treatment strategies of the pharmaceutical industry effluent with varying qualitative characteristics. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104190.	6.7	14
85	Promising Utilization of CO ₂ for Syngas Production over Mg ²⁺ - and Ce ²⁺ -Promoted Ni ³⁺ -Al ₂ O ₃ Assisted by Nonthermal Plasma. <i>ACS Omega</i> , 2020, 5, 14040-14050.	3.5	14
86	Rational design of TiO ₂ /BiSbS ₃ heterojunction for efficient solar water splitting. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101775.	2.7	14
87	Nonthermal plasma assisted co-processing of CH ₄ and N ₂ O for methanol production. <i>RSC Advances</i> , 2014, 4, 4034-4036.	3.6	13
88	Sequential treatment of crude drug effluent for the elimination of API by combined electro-assisted coagulation-photocatalytic oxidation. <i>Journal of Water Process Engineering</i> , 2019, 28, 195-202.	5.6	13
89	Extinction of Antimicrobial Resistant Pathogens Using Silver Embedded Silica Nanoparticles and an Efflux Pump Blocker. <i>ACS Applied Bio Materials</i> , 2019, 2, 4681-4686.	4.6	12
90	Promising catalytic activity by non-thermal plasma synthesized SBA-15-supported metal catalysts in one-step plasma-catalytic methane conversion to value-added fuels. <i>Catalysis Science and Technology</i> , 2020, 10, 5566-5578.	4.1	11

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91	Enhanced electrical and photocatalytic activities in Na _{0.5} Bi _{0.5} TiO ₃ through structural modulation by using anatase and rutile phases of TiO ₂ . <i>Journal of Materiomics</i> , 2022, 8, 18-29.	5.7	11
92	The Reinforcement Ability of Plasma-Etched Carbon Nanofibers on Mechanical Properties of Epoxy Composites. <i>Plasma Processes and Polymers</i> , 2014, 11, 588-595.	3.0	10
93	Facile, Label-Free, Non-Enzymatic Electrochemical Nanobiosensor Platform as a Significant Step towards Continuous Glucose Monitoring. <i>ChemistrySelect</i> , 2021, 6, 11086-11094.	1.5	10
94	Methane decomposition by plasma-packed bed non-thermal plasma reactor. <i>Chemical Engineering Science</i> , 2022, 258, 117779.	3.8	10
95	Organic transformations catalyzed by palladium nanoparticles on carbon nanomaterials. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	9
96	Electrocatalytic performance of cobalt doped copper bismuth oxide for glucose sensing and photoelectrochemical applications. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108112.	3.9	9
97	Enhanced synergy by plasma reduced Pd nanoparticles on in-plasma catalytic methane conversion to liquid oxygenates. <i>Catalysis Communications</i> , 2020, 147, 106139.	3.3	9
98	Novel ultra-small Pd NPs on SOS spheres: a new catalyst for domino intramolecular Heck and intermolecular Sonogashira couplings. <i>RSC Advances</i> , 2020, 10, 4568-4578.	3.6	9
99	Palladium Nanoparticles on Silica Nanospheres for Switchable Reductive Coupling of Nitroarenes. <i>Catalysis Letters</i> , 2020, 150, 2309-2321.	2.6	9
100	Visible light-induced catalytic abatement of 4-nitrophenol and Rhodamine B using ZnO/g-C ₃ N ₄ catalyst. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	9
101	Room temperature desorption of Self Assembled Monolayer from Copper surface for low temperature & low pressure thermocompression bonding. , 2015, , .		8
102	Fast and clean functionalization of MWCNTs by DBD plasma and its influence on mechanical properties of epoxy composites. <i>RSC Advances</i> , 2015, 5, 62941-62945.	3.6	8
103	Synthesis of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ -reinforced E-glass/epoxy nanocomposites for radar-absorbing structures. <i>Plastics, Rubber and Composites</i> , 2020, 49, 434-442.	2.0	7
104	Green oxidation of alkylaromatics using molecular oxygen over mesoporous manganese silicate catalysts. <i>Dalton Transactions</i> , 2020, 49, 9710-9718.	3.3	7
105	Plasma Functionalized Carbon Interfaces for Biosensor Application: Toward the Real-Time Detection of <i>Escherichia coli</i> O157:H7. <i>ACS Omega</i> , 2022, 7, 21025-21034.	3.5	6
106	Effect of Plasma Etched CNFs on Toughness and Mechanical Properties of Epoxy Composites. <i>Materials and Manufacturing Processes</i> , 2015, 30, 387-392.	4.7	5
107	Esterification of Methacrylic acid with Ethylene glycol over Heteropolyacid supported on ZSM-5. <i>Journal of the Korean Chemical Society</i> , 2011, 55, 14-18.	0.2	5
108	Physicochemical process of non-thermal plasma at gas-liquid interface and synergistic effect of plasma with catalyst. <i>Current Applied Physics</i> , 2022, 36, 16-26.	2.4	5

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109	VISIBLE LIGHT ACTIVE $\text{Cu}^{2+}/\text{TiO}_2$ NANOCATALYST FOR DEGRADATION OF DICHLORVOS. International Journal of Nanoscience, 2012, 11, 1250030.	0.7	4
110	Improved Solar Cell Performance of High Quality Plasma Reduced Graphene Oxide. Plasma Processes and Polymers, 2016, 13, 929-936.	3.0	4
111	Effect of Curing Time on the Performance of Fly Ash Geopolymer-Stabilized RAP Bases. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	4
112	Room-Temperature Toluene Decomposition by Catalytic Non-Thermal Plasma Reactor. IEEE Transactions on Plasma Science, 2022, 50, 1416-1422.	1.3	4
113	Oxidation of Toluene by Ozone over Surface-Modified $\gamma\text{-Al}_2\text{O}_3$: Effect of Ag Addition. Catalysts, 2022, 12, 421.	3.5	4
114	The reinforcement ability of ozone-treated CNFs on mechanical properties of "epoxy composites. Composite Interfaces, 2015, 22, 291-298.	2.3	3
115	Heterogeneous Direct Acylation Strategy to Diaryl Ketones and Their Application to 1,3-Dihydroisobenzofurans. ChemistrySelect, 2020, 5, 1349-1352.	1.5	3
116	Catalytic Plasma Reactor for Degradation and Mineralization of Pharmaceuticals and Personal Care Products. Journal of Advanced Oxidation Technologies, 2015, 18, .	0.5	2
117	Construction of metal oxide decorated $\text{g-C}_3\text{N}_4$ materials with enhanced photocatalytic p. Journal of Chemical Sciences, 2019, 131, 1.	1.5	2
118	Varying Efficacies of Fenton's Oxidation Treatment on Pharmaceutical Industry Effluents of Contrasting Viscosity Profiles. Clean - Soil, Air, Water, 2021, 49, 2000335.	1.1	2
119	Switching of support materials for the hydrogenation of nitroarenes: A review. Catalysis Reviews - Science and Engineering, 2024, 66, 259-342.	12.9	2
120	Room temperature desorption of Self Assembly Monolayer (SAM) passivated Cu for lowering the process temperature Cu-Cu bonding of 3-D ICs. , 2012, , .		1
121	Facile Synthesis of Au/CeO_2 Catalyst for Low Temperature CO Oxidation. Advanced Chemistry Letters, 2013, 1, 264-271.	0.1	1