

Ch Subrahmanyam

List of Publications by Year in descending order

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97
papers

3,540
citations

126907

33
h-index

155660

55
g-index

98
all docs

98
docs citations

98
times ranked

3545
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching of support materials for the hydrogenation of nitroarenes: A review. <i>Catalysis Reviews - Science and Engineering</i> , 2024, 66, 259-342.	12.9	2
2	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
3	Room-Temperature Toluene Decomposition by Catalytic Non-Thermal Plasma Reactor. <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 1416-1422.	1.3	4
4	Methane decomposition by plasma-packed bed non-thermal plasma reactor. <i>Chemical Engineering Science</i> , 2022, 258, 117779.	3.8	10
5	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
6	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
7	ZnAlMCM-41: a very ecofriendly and reusable solid acid catalyst for the highly selective synthesis of 1,3-dioxanes by the Prins cyclization of olefins. <i>Dalton Transactions</i> , 2021, 50, 1672-1682.	3.3	3
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Palladium Nanoparticles on Silica Nanospheres for Switchable Reductive Coupling of Nitroarenes. <i>Catalysis Letters</i> , 2020, 150, 2309-2321.	2.6	9
16	Heterogeneous Direct Acylation Strategy to Diaryl Ketones and Their Application to 1,3-dihydroisobenzofurans. <i>ChemistrySelect</i> , 2020, 5, 1349-1352.	1.5	3
17	Photocatalytic hydrogenation of nitroarenes: supporting effect of CoO ₂ on TiO ₂ nanoparticles. <i>New Journal of Chemistry</i> , 2019, 43, 748-754.	2.8	22
18	Construction of metal oxide decorated g-C ₃ N ₄ materials with enhanced photocatalytic p. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	1.5	2

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19	g-C ₃ N ₄ promoted DBD plasma assisted dry reforming of methane. <i>Energy</i> , 2019, 183, 630-638.	8.8	22
20	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
21	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
22	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
23	Catalytic DBD plasma approach for methane partial oxidation to methanol under ambient conditions. <i>Catalysis Today</i> , 2019, 337, 117-125.	4.4	24
24	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
25	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
26	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
27	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
28	Organic transformations catalyzed by palladium nanoparticles on carbon nanomaterials. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	9
29	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
30	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
31	Ni-Mn/Al ₂ O ₃ assisted plasma dry reforming of methane. <i>Catalysis Today</i> , 2018, 309, 212-218.	4.4	68
32	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
33	Single step conversion of methane to methanol assisted by nonthermal plasma. <i>Fuel Processing Technology</i> , 2018, 179, 32-41.	7.2	29
34	Enhanced photocatalytic and antibacterial activity of plasma-reduced silver nanoparticles. <i>RSC Advances</i> , 2018, 8, 24827-24835.	3.6	9
35	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
36	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

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37	Recyclable Pd/CuFe ₂ O ₄ nanowires: a highly active catalyst for C–C couplings and synthesis of benzofuran derivatives. RSC Advances, 2018, 8, 21030-21039.	3.6	19
38	Non-thermal discharge plasma promoted redox transformation of arsenic(III) and chromium(VI) in an aqueous medium. Chemical Engineering Journal, 2017, 329, 211-219.	12.7	23
39	Nano-sized Recyclable PdO Supported Carbon Nanostructures for Heck Reaction: Influence of Carbon Materials. ChemistrySelect, 2017, 2, 2700-2707.	1.5	21
40	Phenol and Cr(VI) degradation with Mn ion doped ZnO under visible light photocatalysis. RSC Advances, 2017, 7, 43030-43039.	3.6	60
41	Bismuth sulfide nanocrystals and gold nanorods increase the photovoltaic response of a TiO ₂ /CdS based cell. Solar Energy Materials and Solar Cells, 2017, 159, 296-306.	6.2	21
42	Mesoporous V-AlPO ₄ – New Partial Oxidation Catalyst. Eurasian Chemico-Technological Journal, 2017, 4, 169.	0.6	1
43	CO ₂ decomposition in a packed DBD plasma reactor: influence of packing materials. RSC Advances, 2016, 6, 39492-39499.	3.6	85
44	Conducting polymer coated graphene oxide reinforced C–epoxy composites for enhanced electrical conduction. Composites Part A: Applied Science and Manufacturing, 2016, 80, 237-243.	7.6	31
45	One pot synthesis of CdS/TiO ₂ hetero-nanostructures for enhanced H ₂ production from water and removal of pollutants from aqueous streams. Materials Research Bulletin, 2016, 73, 377-384.	5.2	16
46	Synthesis of CdS/CeO ₂ nanomaterials for photocatalytic H ₂ production and simultaneous removal of phenol and Cr(VI). Journal of Environmental Chemical Engineering, 2015, 3, 2350-2357.	6.7	21
47	Effect of Plasma Etched CNFs on Toughness and Mechanical Properties of Epoxy Composites. Materials and Manufacturing Processes, 2015, 30, 387-392.	4.7	5
48	Fast and clean functionalization of MWCNTs by DBD plasma and its influence on mechanical properties of C–epoxy composites. RSC Advances, 2015, 5, 62941-62945.	3.6	8
49	The reinforcement ability of ozone-treated CNFs on mechanical properties of C–epoxy composites. Composite Interfaces, 2015, 22, 291-298.	2.3	3
50	Effect of carbon nanofibre addition on the mechanical properties of different V _f carbon-epoxy composites. Bulletin of Materials Science, 2015, 38, 309-317.	1.7	10
51	Atmospheric pressure non-thermal plasma jet for the degradation of methylene blue in aqueous medium. Chemical Engineering Journal, 2015, 282, 116-122.	12.7	87
52	Influence of hydrogen peroxide on the simultaneous removal of Cr(VI) and methylene blue from aqueous medium under atmospheric pressure plasma jet. Journal of Environmental Chemical Engineering, 2015, 3, 2760-2767.	6.7	28
53	Catalytic nonthermal plasma assisted co-processing of methane and nitrous oxide for methanol production. Catalysis Today, 2015, 256, 102-107.	4.4	16
54	Study of Short-Term Catalyst Deactivation Due to Carbon Deposition during Biogas Dry Reforming on Supported Ni Catalyst. Energy & Fuels, 2015, 29, 8047-8052.	5.1	38

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55	C and N doped nano-sized TiO ₂ for visible light photocatalytic degradation of aqueous pollutants. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 115-125.	2.4	14
56	Preparation of activated carbons from bio-waste: effect of surface functional groups on methylene blue adsorption. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 1363-1372.	3.5	46
57	Facile synthesis of efficient visible active C-doped TiO ₂ nanomaterials with high surface area for the simultaneous removal of phenol and Cr(VI). <i>Materials Research Bulletin</i> , 2015, 61, 391-399.	5.2	39
58	Surface modification of carbon fabric for isopropanol removal from gas stream. <i>Microelectronic Engineering</i> , 2014, 126, 60-64.	2.4	6
59	Catalytic nonthermal plasma reactor for the abatement of low concentrations of benzene. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 311-318.	3.5	29
60	Novel synthesis of C, N doped rice grain shaped ZnS nanomaterials " towards enhanced visible light photocatalytic activity for aqueous pollutant removal and H ₂ production. <i>RSC Advances</i> , 2014, 4, 23292-23298.	3.6	12
61	Catalytic non-thermal plasma reactor for stripping the VOCs from air. <i>Composite Interfaces</i> , 2014, 21, 651-658.	2.3	6
62	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
63	Catalytic packed bed non-thermal plasma reactor for the extraction of hydrogen from hydrogen sulfide. <i>International Journal of Energy Research</i> , 2013, 37, 1280-1286.	4.5	13
64	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
65	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
66	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
67	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
68	Catalytic Nonthermal Plasma Reactor for Dry Reforming of Methane. <i>Energy & Fuels</i> , 2013, 27, 4441-4447.	5.1	65
69	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
70	Effect of fuels on combustion synthesis of TiO ₂ " Towards efficient photocatalysts for methylene blue oxidation and Cr (VI) reduction under natural sunlight. <i>Chemical Engineering Journal</i> , 2013, 228, 545-553.	12.7	34
71	Kinetics of hydrogen sulfide decomposition in a DBD plasma reactor operated at high temperature. <i>Journal of Energy Chemistry</i> , 2013, 22, 382-386.	12.9	12
72	Degradation of malachite green by dielectric barrier discharge plasma. <i>Water Science and Technology</i> , 2013, 67, 1097-1104.	2.5	13

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73	Removal of mixture of VOCs by nonthermal plasma. <i>Composite Interfaces</i> , 2012, 19, 271-277.	2.3	4
74	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
75	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
76	Combustion synthesized TiO ₂ for enhanced photocatalytic activity under the direct sunlight-optimization of titanyl nitrate synthesis. <i>Materials Research Bulletin</i> , 2012, 47, 2415-2421.	5.2	17
77	Nonthermal plasma assisted photocatalytic oxidation of dilute benzene. <i>Journal of Chemical Sciences</i> , 2012, 124, 841-845.	1.5	9
78	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
79	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
80	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
81	Production of hydrogen and sulfur from hydrogen sulfide assisted by nonthermal plasma. <i>Applied Energy</i> , 2012, 95, 87-92.	10.1	91
82	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
83	Catalytic Plasma Reactor for Abatement of Dilute Nitrobenzene. <i>Chinese Journal of Catalysis</i> , 2011, 32, 795-799.	14.0	7
84	Catalytic non-thermal plasma reactor for abatement of toluene. <i>Chemical Engineering Journal</i> , 2010, 160, 677-682.	12.7	90
85	Catalytic nonthermal plasma reactor for the abatement of low concentrations of isopropanol. <i>Chemical Engineering Journal</i> , 2010, 165, 194-199.	12.7	40
86	Nonthermal Plasma Abatement of Trichloroethylene Enhanced by Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4315-4318.	3.1	49
87	Novel catalytic non-thermal plasma reactor for the abatement of VOCs. <i>Chemical Engineering Journal</i> , 2007, 134, 78-83.	12.7	120
88	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
89	Novel Catalytic Dielectric Barrier Discharge Reactor for Gas-Phase Abatement of Isopropanol. <i>Plasma Chemistry and Plasma Processing</i> , 2007, 27, 13-22.	2.4	44
90	Catalytic abatement of volatile organic compounds assisted by non-thermal plasma. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 150-156.	20.2	176

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91	Catalytic abatement of volatile organic compounds assisted by non-thermal plasma. Applied Catalysis B: Environmental, 2006, 65, 157-162.	20.2	66
92	Alkylation of naphthalene with alcohols over acidic mesoporous solids. Journal of Molecular Catalysis A, 2005, 226, 155-163.	4.8	28
93	Synthesis, characterisation and catalytic properties of vanadium substituted mesoporous aluminophosphates. Applied Catalysis A: General, 2005, 282, 67-71.	4.3	36
94	Synthesis, characterization and catalytic activity of mesoporous trivalent iron substituted aluminophosphates. Journal of Molecular Catalysis A, 2004, 223, 149-153.	4.8	17
95	Catalytic oxidation of toluene with molecular oxygen over Cr-substituted mesoporous materials. Applied Catalysis A: General, 2003, 241, 205-215.	4.3	46
96	Partial oxidation of toluene by O ₂ over mesoporous Cr-AlPO. Catalysis Communications, 2002, 3, 45-50.	3.3	36
97	Hydroxylation of Phenol over M-MCM-48. Eurasian Chemico-Technological Journal, 2001, 3, 59.	0.6	2