

Suvarna Trivedi

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,049
citations

516710

16
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

1431
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of aspects of additive engineering in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 27-54.	10.3	232
2	Ethanol steam reforming for hydrogen production: Latest and effective catalyst modification strategies to minimize carbonaceous deactivation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 89-103.	16.4	218
3	Preparation Methods and Applications of CuO-CeO ₂ Catalysts: A Short Review. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2010, 5, .	1.1	70
4	Low-temperature complete oxidation of CO over various manganese oxide catalysts. <i>Atmospheric Pollution Research</i> , 2018, 9, 755-763.	3.8	56
5	Suppressing recombination in perovskite solar cells via surface engineering of TiO ₂ ETL. <i>Solar Energy</i> , 2020, 197, 50-57.	6.1	53
6	A review on catalytic oxidation of soot emitted from diesel fuelled engines. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103945.	6.7	52
7	Influence of A-site cations on the open-circuit voltage of efficient perovskite solar cells: a case of rubidium and guanidinium additives. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8218-8225.	10.3	43
8	Reactive calcination route for synthesis of active Mn ²⁺ /Co ³⁺ spinel catalysts for abatement of CO ₂ /CH ₄ emissions from CNG vehicles. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1017-1028.	6.7	36
9	Elucidation of the role of guanidinium incorporation in single-crystalline MAPbI ₃ perovskite on ion migration and activation energy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11467-11473.	2.8	36
10	Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications. <i>ACS Omega</i> , 2021, 6, 1030-1042.	3.5	35
11	Interpretation of Resistance, Capacitance, Defect Density, and Activation Energy Levels in Single-Crystalline MAPbI ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 3496-3502.	3.1	33
12	Charge Accumulation, Recombination, and Their Associated Time Scale in Efficient (GUA) _x (MA) _{1-x} PbI ₃ -Based Perovskite Solar Cells. <i>ACS Omega</i> , 2019, 4, 16840-16846.	3.5	25
13	Selection of cobaltite and effect of preparation method of NiCo ₂ O ₄ for catalytic oxidation of CO/CH ₄ mixture. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017, 12, 440-453.	1.5	20
14	Design of active NiCo ₂ O ₄ spinel catalyst for abatement of CO/CH ₄ emissions from CNG fueled vehicles. <i>AIChE Journal</i> , 2018, 64, 2632-2646.	3.6	20
15	Ethanol steam reforming study over ZSM-5 supported cobalt versus nickel catalyst for renewable hydrogen generation. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 677-684.	3.5	19
16	Catalytic abatement of CO, HCs and soot emissions over spinel-based catalysts from diesel engines: An overview. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103627.	6.7	18
17	Current scenario of CNG vehicular pollution and their possible abatement technologies: an overview. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39977-40000.	5.3	16
18	In the Quest of Low-Frequency Impedance Spectra of Efficient Perovskite Solar Cells. <i>Energy Technology</i> , 2021, 9, 2100229.	3.8	16

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19	Choice of precipitant and calcination temperature of precursor for synthesis of NiCo ₂ O ₄ for control of CO–CH ₄ emissions from CNG vehicles. Journal of Environmental Sciences, 2018, 65, 62-71.	6.1	14
20	Interface Engineering of Mesoscopic Perovskite Solar Cells by Atomic Layer Deposition of Ta ₂ O ₅ . ACS Applied Energy Materials, 2021, 4, 10433-10441.	5.1	9
21	Synthesis of K–Pd doped NiCo ₂ O ₄ by reactive calcination route for oxidation of CO–CH ₄ emissions from CNG vehicles. New Journal of Chemistry, 2018, 42, 4142-4154.	2.8	8
22	Simultaneous catalytic oxidation of CO and diesel soot over LaCoO ₃ perovskite. Materials Letters, 2021, 292, 129588.	2.6	7
23	Ethanol steam reforming with Co 0 (111) for hydrogen and carbon nanofilament generation. Resource-efficient Technologies, 2017, 3, 422-428.	0.1	6
24	Identification of defects and defect energy distribution in the perovskite layer of MAPbI ₃ Cl _x perovskite solar cell. Materials Research Express, 2019, 6, 105510.	1.6	4
25	A four-way catalytic system for control of emissions from diesel engine. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	1.3	2
26	Kinetics of simultaneous oxidation of CO–CH ₄ over Pd–K promoted NiCo ₂ O ₄ /Al ₂ O ₃ catalyst. Canadian Journal of Chemical Engineering, 2018, 96, 1352-1359.	1.7	1
27	Oxidation Kinetics of Propane-Air Mixture over NiCo ₂ O ₄ Catalyst Emitted from LPG Vehicles. Bulletin of Chemical Reaction Engineering and Catalysis, 2017, 12, 191.	1.1	0