

Suresh Babu Kalidindi

List of Publications by Year in descending order

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39
papers

2,525
citations

218677

26
h-index

276875

41
g-index

46
all docs

46
docs citations

46
times ranked

3737
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured Cu and Cu@Cu ₂ O core shell catalysts for hydrogen generation from ammonia-borane. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5870.	2.8	243
2	First Row Transition Metal Ion-Assisted Ammonia-Borane Hydrolysis for Hydrogen Generation. <i>Inorganic Chemistry</i> , 2008, 47, 7424-7429.	4.0	201
3	Nanocatalysis and Prospects of Green Chemistry. <i>ChemSusChem</i> , 2012, 5, 65-75.	6.8	193
4	A Cryogenically Flexible Covalent Organic Framework for Efficient Hydrogen Isotope Separation by Quantum Sieving. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13219-13222.	13.8	183
5	Chemical and Structural Stability of Zirconium-based Metal-Organic Frameworks with Large Three-Dimensional Pores by Linker Engineering. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 221-226.	13.8	141
6	Metal@COFs: Covalent Organic Frameworks as Templates for Pd Nanoparticles and Hydrogen Storage Properties of Pd@COF-102 Hybrid Material. <i>Chemistry - A European Journal</i> , 2012, 18, 10848-10856.	3.3	138
7	GaN@ZIF-8: Selective Formation of Gallium Nitride Quantum Dots inside a Zinc Methylimidazolate Framework. <i>Journal of the American Chemical Society</i> , 2011, 133, 16370-16373.	13.7	119
8	Exploring the Brønsted acidity of UiO-66 (Zr, Ce, Hf) metal-organic frameworks for efficient solketal synthesis from glycerol acetalization. <i>Dalton Transactions</i> , 2019, 48, 843-847.	3.3	97
9	Co-Co ₂ B, Ni-Ni ₃ B and Co-Ni-B nanocomposites catalyzed ammonia-borane methanolysis for hydrogen generation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 770-775.	2.8	91
10	Highly Monodisperse Colloidal Magnesium Nanoparticles by Room Temperature Digestive Ripening. <i>Inorganic Chemistry</i> , 2009, 48, 4524-4529.	4.0	88
11	An amine functionalized zirconium metal-organic framework as an effective chemiresistive sensor for acidic gases. <i>Chemical Communications</i> , 2019, 55, 349-352.	4.1	83
12	Assembly of ZIF-67 Metal-Organic Framework over Tin Oxide Nanoparticles for Synergistic Chemiresistive CO ₂ Gas Sensing. <i>Chemistry - A European Journal</i> , 2018, 24, 9220-9223.	3.3	79
13	Cu ²⁺ -induced room temperature hydrogen release from ammonia borane. <i>Energy and Environmental Science</i> , 2009, 2, 1274.	30.8	77
14	Quantum cryo-sieving for hydrogen isotope separation in microporous frameworks: an experimental study on the correlation between effective quantum sieving and pore size. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3244.	10.3	68
15	Synthesis of Cu@ZnO Core-Shell Nanocomposite through Digestive Ripening of Cu and Zn Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4042-4048.	3.1	59
16	Metal-Organic Frameworks for Hydrogen Energy Applications: Advances and Challenges. <i>ChemPhysChem</i> , 2019, 20, 1177-1215.	2.1	56
17	Chemical Synthesis of Metal Nanoparticles Using Amine-Boranes. <i>ChemSusChem</i> , 2011, 4, 317-324.	6.8	49
18	Synergistic Hydrogenation over Palladium through the Assembly of MIL-101(Fe) MOF over Palladium Nanocubes. <i>Chemistry - A European Journal</i> , 2017, 23, 16456-16459.	3.3	48

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19	Hybridization of Pd Nanoparticles with UiO-66(Hf) Metal-Organic Framework and the Effect of Nanostructure on the Catalytic Properties. <i>Chemistry - A European Journal</i> , 2018, 24, 15978-15982.	3.3	48
20	Cooperative catalysis at the metal-MOF interface: hydrodeoxygenation of vanillin over Pd nanoparticles covered with a UiO-66(Hf) MOF. <i>Dalton Transactions</i> , 2019, 48, 8573-8577.	3.3	44
21	Covalent organic frameworks and their metal nanoparticle composites: Prospects for hydrogen storage. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1119-1127.	1.5	43
22	Metal Nanoparticles via the Atom-Economy Green Approach. <i>Inorganic Chemistry</i> , 2010, 49, 3965-3967.	4.0	40
23	Metalloenes@COF-102: organometallic host-guest chemistry of porous crystalline organic frameworks. <i>Chemical Communications</i> , 2011, 47, 8506.	4.1	36
24	B ₁₂ N Chemistry@ZIF-8: Dehydrocoupling of Dimethylamine Borane at Room Temperature by Size-Confinement Effects. <i>Chemistry - A European Journal</i> , 2011, 17, 6594-6597.	3.3	34
25	Electrochemical oxidation of boron containing compounds on titanium carbide and its implications to direct fuel cells. <i>Electrochimica Acta</i> , 2011, 56, 10493-10499.	5.2	30
26	Surfactant-Induced Nonhydrolytic Synthesis of Phase-Pure ZrO ₂ Nanoparticles from Metal-Organic and Oxocluster Precursors. <i>Chemistry of Materials</i> , 2012, 24, 4274-4282.	6.7	26
27	Lewis base mediated efficient synthesis and solvation-like host-guest chemistry of covalent organic framework-1. <i>Chemical Communications</i> , 2013, 49, 463-465.	4.1	26
28	A multifunctional covalently linked graphene-MOF hybrid as an effective chemiresistive gas sensor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17434-17441.	10.3	26
29	Transfer hydrogenation of alkynes into alkenes by ammonia borane over Pd-MOF catalysts. <i>Dalton Transactions</i> , 2020, 49, 5024-5028.	3.3	22
30	Preparation, microstructure characterization and catalytic performance of Cu/ZnO and ZnO/Cu composite nanoparticles for liquid phase methanol synthesis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8170.	2.8	20
31	Nanocomposite Hydrogel of Pd@ZIF-8 and Laponite [®] : Size-Selective Hydrogenation Catalyst under Mild Conditions. <i>Chemistry - A European Journal</i> , 2021, 27, 3268-3272.	3.3	16
32	Dehydrogenation of ammonia borane in fluoro alcohols. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10819-10825.	7.1	14
33	Hybrids of Pd Nanoparticles and Metal-Organic Frameworks for Enhanced Magnetism. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4742-4748.	4.6	9
34	Magnesium/Copper Nanocomposite through Digestive Ripening. <i>Chemistry - an Asian Journal</i> , 2009, 4, 835-838.	3.3	8
35	Exploring the effect of acid modulators on MIL-101 (Cr) metal-organic framework catalysed olefin-aldehyde condensation: a sustainable approach for the selective synthesis of nopol. <i>New Journal of Chemistry</i> , 2022, 46, 726-738.	2.8	7
36	Pd (II) decorated conductive two-dimensional chromium-pyrazine metal-organic framework for rapid detection of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 9477-9483.	7.1	7

#	ARTICLE	IF	CITATIONS
37	Copper(II)-Assisted Ammonia Borane Dehydrogenation: An Insight. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4000.	2.0	5
38	Unraveling high alkene selectivity at full conversion in alkyne hydrogenation over Ni under continuous flow conditions. <i>Catalysis Science and Technology</i> , 2022, 12, 5265-5273.	4.1	3
39	Hybridization of Palladium Nanoparticles with Aromatic-rich SU-101 Metal-Organic Framework for Effective Transfer Hydrogenation. <i>European Journal of Inorganic Chemistry</i> , 0, , .	2.0	2