Chinnakonda S. Gopinath

List of Publications by Year
in descending order

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218 papers	9,646 citations	31976 53 h-index	49909 87 g-index
225 all docs	225 docs citations	225 times ranked	10401 citing authors

#	Article	IF	Citations
1	Synthesis, Characterization, Electronic Structure, and Photocatalytic Activity of Nitrogen-Doped TiO2 Nanocatalyst. Chemistry of Materials, 2005, 17, 6349-6353.	6.7	866
2	Copper Cobalt Sulfide Nanosheets Realizing a Promising Electrocatalytic Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 5871-5879.	11.2	437
3	In situ XPS investigations of Cu1â˜xNixZnAl-mixed metal oxide catalysts used in the oxidative steam reforming of bio-ethanol. Applied Catalysis B: Environmental, 2005, 55, 287-299.	20.2	220
4	Facile Single-Step Synthesis of Nitrogen-Doped Reduced Graphene Oxide-Mn₃O₄ Hybrid Functional Material for the Electrocatalytic Reduction of Oxygen. ACS Applied Materials & Interfaces, 2014, 6, 2692-2699.	8.0	214
5	Mâ€“Au/TiO₂(M = Ag, Pd, and Pt) nanophotocatalyst for overall solar water splitting: role of interfaces. Nanoscale, 2015, 7, 13477-13488.	5.6	202
6	Nature of Manganese Species in Ce1-xMnxO2-Î´ Solid Solutions Synthesized by the Solution Combustion Route. Chemistry of Materials, 2005, 17, 3983-3993.	6.7	189
7	XPS, XANES and EXAFS investigations of CuO/ZnO/Al2O3/ZrO2 mixed oxide catalysts. Physical Chemistry Chemical Physics, 2002, 4, 1990-1999.	2.8	177
8	Facile Synthesis of N- and S-Incorporated Nanocrystalline TiO₂ and Direct Solar-Light-Driven Photocatalytic Activity. Journal of Physical Chemistry C, 2010, 114, 19473-19482.	3.1	166
9	Cuâ€“Co Synergism in Cu1â˜xCoxFe2O4â€"Catalysis and XPS Aspects. Journal of Catalysis, 2002, 210, 405-417.	6.2	164
10	Porosity driven photocatalytic activity of wormhole mesoporous TiO2-xNx in direct sunlight. Journal of Materials Chemistry, 2011, 21, 2639.	6.7	159
11	Photoemission studies of polymorphic CaCO3 materials. Materials Research Bulletin, 2002, 37, 1323-1332.	5.2	126
12	Oxidative Reforming of Bio-Ethanol Over CuNiZnAl Mixed Oxide Catalysts for Hydrogen Production. Catalysis Letters, 2002, 82, 145-152.	2.6	124
13	Design and Performance Aspects of a Custom-Built Ambient Pressure Photoelectron Spectrometer toward Bridging the Pressure Gap: Oxidation of Cu, Ag, and Au Surfaces at 1 mbar O₂ Pressure. Journal of Physical Chemistry C, 2013, 117, 4717-4726.	3.1	120
14	Combustion Synthesis of Triangular and Multifunctional ZnO_{1â˜<i>x</i>}N_{<i>x</i>} (<i>x</i> â‰ 0.15) Materials. Chemistry of Materials, 2009, 21, 351-359.	6.7	119
15	Band alignment and charge transfer pathway in three phase anatase-rutile-brookite TiO2 nanotubes: An efficient photocatalyst for water splitting. Applied Catalysis B: Environmental, 2017, 218, 9-19.	20.2	117
16	Ambient Oxidation of Benzene to Phenol by Photocatalysis on Au/Ti_{0.98}V_{0.02}O₂: Role of Holes. ACS Catalysis, 2014, 4, 2844-2853.	11.2	116
17	A scalable and thin film approach for solar hydrogen generation: a review on enhanced photocatalytic water splitting. Journal of Materials Chemistry A, 2021, 9, 1353-1371.	10.3	116
18	Two ferromagnetic phases with different spin states of Mn and Ni inLaMn0.5Ni0.5O3. Physical Review B, 2002, 65, .	3.2	114

#	Article	IF	Citations
19	Selective ortho-methylation of phenol with methanol over copper manganese mixed-oxide spinel catalysts. Journal of Catalysis, 2006, 243, 278-291.	6.2	103
20	Bimetallic and Plasmonic Agâ€“Au on TiO₂ for Solar Water Splitting: An Active Nanocomposite for Entire Visibleâ€Lightâ€Region Absorption. ChemCatChem, 2016, 8, 3294-3311.	3.7	98
21	Evidence for an N2O intermediate in the catalytic reduction of NO to N2 on rhodium surfaces. Chemical Physics Letters, 2000, 332, 209-214.	2.6	94
22	Oxidative dehydrogenation of ethylbenzene over vanadia-alumina catalysts in the presence of nitrous oxide: structure-activity relationship. Journal of Catalysis, 2005, 230, 484-492.	6.2	87
23	Comment on â€œPhotoelectron Spectroscopic Investigation of Nitrogen-Doped Titania Nanoparticlesâ€ Journal of Physical Chemistry B, 2006, 110, 7079-7080.	2.6	87
24	On the â€œActive spacer and stabilizerâ€role of Zn in Cu1âˆ’xZnxFe2O4 in the selective mono-N-methylation of aniline: XPS and catalysis study. Journal of Catalysis, 2006, 241, 83-95.	6.2	85
25	Recent developments in solar H2 generation from water splitting. Journal of Chemical Sciences, 2015, 127, 33-47.	1.5	85
26	Promising visible-light driven hydrogen production from water on a highly efficient CuCo₂S₄ nanosheet photocatalyst. Journal of Materials Chemistry A, 2019, 7, 6985-6994.	10.3	84
27	A rational approach towards enhancing solar water splitting: a case study of Auâ€“RGO/N-RGOâ€“TiO2. Nanoscale, 2015, 7, 11206-11215.	5.6	83
28	Photoemission and in Situ XRD Investigations on CuCoZnAl-Mixed Metal Oxide Catalysts for the Oxidative Steam Reforming of Methanol. Journal of Physical Chemistry B, 2002, 106, 12737-12746.	2.6	77
29	Applications of a high performance platinum nanocatalyst for the oxidation of alcohols in water. Green Chemistry, 2009, 11, 554.	9.0	76
30	UV Photoelectron Spectroscopy at Near Ambient Pressures: Mapping Valence Band Electronic Structure Changes from Cu to CuO. Analytical Chemistry, 2014, 86, 3683-3687.	6.5	76
31	A Study on Doped Heterojunctions in TiO2 Nanotubes: An Efficient Photocatalyst for Solar Water Splitting. Scientific Reports, 2017, 7, 14314.	3.3	74
32	A rationally designed CuFe2O4â€“mesoporous Al2O3 composite towards stable performance of high temperature waterâ€“gas shift reaction. Chemical Communications, 2013, 49, 11257.	4.1	72
33	Role of adsorbed nitrogen in the catalytic reduction of NO on rhodium surfaces. Journal of Chemical Physics, 1999, 111, 8088-8097.	3.0	71
34	Title is missing!. Catalysis Letters, 2002, 83, 209-214.	2.6	71
35	Electronic Structure and Catalytic Study of Solid Solution of GaN in ZnO. Chemistry of Materials, 2009, 21, 2973-2979.	6.7	71
36	Selective production of orthoalkyl phenols on Cu0.5Co0.5Fe2O4: a study of catalysis and characterization. Applied Catalysis A: General, 2004, 273, 35-45.	4.3	67

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37	Tertiary butylation of phenol on Cu1â^'xCoxFe2O4: catalysis and structureâ€“activity correlation. Journal of Catalysis, 2004, 222, 107-116.	6.2	67
38	Exfoliation-induced nanoribbon formation of poly(3,4-ethylene dioxythiophene) PEDOT between MoS2 layers as cathode material for lithium batteries. Journal of Power Sources, 2006, 156, 615-619.	7.8	67
39	N,S-Co-doped TiO₂ Nanophotocatalyst: Synthesis, Electronic Structure and Photocatalysis. Journal of Nanoscience and Nanotechnology, 2009, 9, 423-432.	0.9	65
40	Why the thin film form of a photocatalyst is better than the particulate form for direct solar-to-hydrogen conversion: a poor man's approach. RSC Advances, 2019, 9, 6094-6100.	3.6	65
41	A mechanistic approach to phenol methylation on Cu1â^'xCoxFe2O4: FTIR study. Journal of Catalysis, 2004, 227, 175-185.	6.2	64
42	Electronic Integration and Thin Film Aspects of Auâ€"Pd/rGO/TiO₂ for Improved Solar Hydrogen Generation. ACS Applied Materials & Interfaces, 2019, 11, 32869-32878.	8.0	63
43	Molecular oxygen-assisted oxidative dehydrogenation of ethylbenzene to styrene with nanocrystalline Ti_{1â^'x}V_xO₂. Green Chemistry, 2012, 14, 461-471.	9.0	61
44	A Molecular Beam Study of the Kinetics of the Catalytic Reduction of NO by CO on Rh(111) Single-Crystal Surfaces. Journal of Catalysis, 1999, 186, 387-404.	6.2	60
45	Zeolite encapsulated ruthenium and cobalt schiff base complexes catalyzed allylic oxidation of Î±-pinene. Journal of Molecular Catalysis A, 2002, 184, 289-299.	4.8	60
46	A Molecular Beam Study of the NO + CO Reaction on Pd(111) Surfaces. Journal of Physical Chemistry B, 2005, 109, 13272-13282.	2.6	60
47	A Novel Approach To Prepare Poly(3,4-ethylenedioxythiophene) Nanoribbons between V2O5Layers by Microwave Irradiation. Journal of Physical Chemistry B, 2004, 108, 10736-10742.	2.6	59
48	Acidâ€“base properties of Cu1â^'xCoxFe2O4ferrospinels: FTIR investigations. Physical Chemistry Chemical Physics, 2002, 4, 4260-4267.	2.8	57
49	Highly efficient organic-inorganic poly(3,4-ethylenedioxythiophene)-molybdenum trioxide nanocomposite electrodes for electrochemical supercapacitor. Journal of Applied Physics, 2006, 100, 074319.	2.5	57
50	Structure, Electronic Structure, Optical, and Dehydrogenation Catalytic Study of (Zn_{1â^'<i>z</i>}In_{<i>z</i>})(O_{1â^'<i>x</i>}N_{<i>x</i>}) Solid Solution. Chemistry of Materials, 2010, 22, 565-578.	6.7	57
51	Î³-Al2â^'xMxO3Â±y (M = Ti4+ through Ga3+): potential pseudo-3D mesoporous materials with tunable acidity and electronic structure. Journal of Materials Chemistry, 2012, 22, 13484.	6.7	56
52	Transient Kinetics during the Isothermal Reduction of NO by CO on Rh(111) As Studied with Effusive Collimated Molecular Beamsâ€. Journal of Physical Chemistry B, 2000, 104, 3194-3203.	2.6	55
53	NO+CO+O2 Reaction Kinetics on Rh(111): A Molecular Beam Study. Journal of Catalysis, 2001, 200, 270-287.	6.2	54
54	Cadmium sulfide nanostructures: Influence of morphology on the photocatalytic degradation of erioglaucine and hydrogen generation. Applied Surface Science, 2019, 483, 696-705.	6.1	54

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55	Toward a Quantitative Correlation between Microstructure and DSSC Efficiency: A Case Study of TiO_{2â€“<i>x</i>}N_{<i>x</i>} Nanoparticles in a Disordered Mesoporous Framework. Journal of Physical Chemistry C, 2012, 116, 2581-2587.	3.1	53
56	Oxidation Activity and 18O-Isotope Exchange Behavior of Cu-Stabilized Cubic Zirconia. Journal of Catalysis, 2001, 199, 209-216.	6.2	52
57	Metallic Cobalt to Spinel Co₃O₄â€"Electronic Structure Evolution by Near-Ambient Pressure Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 21472-21481.	3.1	52
58	Physicochemical Investigations of the Basicity of the Cation Exchanged ETS-10 Molecular Sieves. Journal of Physical Chemistry B, 2003, 107, 8517-8523.	2.6	51
59	Pt â€“ g-C3N4 â€“ (Au/TiO2): Electronically integrated nanocomposite for solar hydrogen generation. International Journal of Hydrogen Energy, 2018, 43, 601-613.	7.1	51
60	Direct Thermal Polymerization Approach to N-Rich Holey Carbon Nitride Nanosheets and Their Promising Photocatalytic H₂ Evolution and Charge-Storage Activities. ACS Sustainable Chemistry and Engineering, 2019, 7, 9428-9438.	6.7	50
61	Effect of coverage and temperature on the kinetics of nitrogen desorption from Rh(111) surfaces. Journal of Chemical Physics, 2002, 116, 1128-1136.	3.0	49
62	MCM-41-supported platinum carbonyl cluster-derived catalysts for asymmetric and nonasymmetric hydrogenation reactions. Journal of Catalysis, 2006, 239, 154-161.	6.2	49
63	MCM-41-Supported Organometallic-Derived Nanopalladium as a Selective Hydrogenation Catalyst. Journal of Physical Chemistry C, 2008, 112, 9428-9433.	3.1	49
64	Molecular Origins of Wettability of Hydrophobic Poly(vinylidene fluoride) Microporous Membranes on Poly(vinyl alcohol) Adsorption:Â Surface and Interface Analysis by XPS. Journal of Physical Chemistry B, 2005, 109, 13941-13947.	2.6	47
65	Toward an Understanding of the Molecular Level Properties of Zieglerâˆ'Natta Catalyst Support with and without the Internal Electron Donor. Journal of Physical Chemistry C, 2011, 115, 1952-1960.	3.1	47
66	Gasâ€“solid interaction of H2â€“Ce0.95Zr0.05O2: new insights into surface participation in heterogeneous catalysis. Catalysis Science and Technology, 2016, 6, 1746-1756.	4.1	45
67	ZnOâ€“ZnS Heterojunctions: A Potential Candidate for Optoelectronics Applications and Mineralization of Endocrine Disruptors in Direct Sunlight. ACS Omega, 2017, 2, 6768-6781.	3.5	45
68	Aminosilicate solâ€“gel stabilized N-doped TiO2â€“Au nanocomposite materials and their potential environmental remediation applications. RSC Advances, 2013, 3, 13390.	3.6	44
69	Electrochemical studies of poly (3,4-ethylenedioxythiophene) PEDOT/VS2 nanocomposite as a cathode material for rechargeable lithium batteries. Electrochemistry Communications, 2005, 7, 213-218.	4.7	43
70	An electrochromic device (ECD) cell characterization on electron beam evaporated MoO3 films by intercalating/deintercalating the H+ ions. Current Applied Physics, 2007, 7, 76-86.	2.4	43
71	Possibly scalable solar hydrogen generation with quasi-artificial leaf approach. Scientific Reports, 2017, 7, 6515.	3.3	43
72	Hydroxyl group deprotection reactions with Pd(OH)2/C: a convenient alternative to hydrogenolysis of benzyl ethers and acid hydrolysis of ketals. Tetrahedron, 2007, 63, 4149-4155.	1.9	42

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73	A Revisit to Carbon Monoxide Oxidation on Pd(111) Surfaces. Journal of Physical Chemistry C, 2009, 113, 7385-7397.	3.1	42
74	Evidence for the Formation of Nitrogen Islands on Rhodium Surfaces. Journal of Physical Chemistry B, 2001, 105, 7771-7774.	2.6	41
75	Oxidation activity and 18O-isotope exchange behavior of nickel oxide-stabilized cubic zirconia. Journal of Catalysis, 2004, 222, 80-86.	6.2	41
76	Disordered Mesoporous TiO_{2â^'<i>x</i>}N_{<i>x</i>}+Nanoâ€Au: An Electronically Integrated Nanocomposite for Solar H₂ Generation. ChemCatChem, 2014, 6, 522-530.	3.7	41
77	Enhancement in Rate of Photocatalysis Upon Catalyst Recycling. Scientific Reports, 2016, 6, 35075.	3.3	41
78	Lattice-gas study of the kinetics of catalytic conversion of NOâ€“CO mixtures on rhodium surfaces. Journal of Chemical Physics, 2001, 114, 10927-10931.	3.0	40
79	Role of Nanointerfaces in Cuâ€•and Cu+Auâ€Based Nearâ€Ambientâ€Temperature CO Oxidation Catalysts. ChemCatChem, 2014, 6, 3116-3124.	3.7	39
80	Surface intermediates during the catalytic reduction of NO on rhodium catalysts: a kinetic inference. Journal of Molecular Catalysis A, 2001, 167, 23-31.	4.8	38
81	Enhancement of double-layer capacitance behavior and its electrical conductivity in layered poly (3,) Tj ETQq1 1 0.784314 rgBT /Overlo	3.3	38
82	Template Free Synthesis of Mesoporous TiO₂ with High Wall Thickness and Nanocrystalline Framework. Journal of Nanoscience and Nanotechnology, 2009, 9, 371-377.	0.9	38
83	In1â^'xGaxN@ZnO: a rationally designed and quantum dot integrated material for water splitting and solar harvesting applications. Dalton Transactions, 2014, 43, 12546.	3.3	38
84	Hydroxyapatite supported palladium catalysts for Suzukiâ€“Miyaura cross-coupling reaction in aqueous medium. Catalysis Science and Technology, 2013, 3, 1625.	4.1	36
85	On the mechanism for the reduction of nitrogen monoxide on Rh(111) single-crystal surfaces. Physical Chemistry Chemical Physics, 2003, 5, 646-654.	2.8	33
86	Polymer-based hybrid catalyst of low Pt content for electrochemical hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 22821-22829.	7.1	33
87	Molybdenum carbide catalyst for the reduction of CO₂ to CO: surface science aspects by NAPPES and catalysis studies. Dalton Transactions, 2019, 48, 12199-12209.	3.3	32
88	The origin of ferromagnetism in the two different phases of LaMn0.5Co0.5O3: evidence from x-ray photoelectron spectroscopic studies. Journal of Physics Condensed Matter, 2001, 13, 649-656.	1.8	31
89	Can We Shift and/or Broaden the Catalysis Regime towards Ambient Temperature?. ChemCatChem, 2015, 7, 588-594.	3.7	31
90	Water Mediated Deactivation of Co₃O₄ Naonrods Catalyst for CO Oxidation and Resumption of Activity at and Above 373 K: Electronic Structural Aspects by NAPPES. Journal of Physical Chemistry C, 2017, 121, 20296-20305.	3.1	31

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91	CuO_xâ€TiO₂ Composites: Electronically Integrated Nanocomposites for Solar Hydrogen Generation. ChemistrySelect, 2018, 3, 12022-12030.	1.5	30
92	Enhanced microwave absorption property of Reduced Graphene Oxide (RGO)â€"Strontium Hexaferrite (SF)/Poly (Vinylidene) Fluoride (PVDF). Diamond and Related Materials, 2018, 89, 28-34.	3.9	30
93	Role of palladium crystallite size on CO oxidation over CeZrO4-Î´ supported Pd catalysts. Molecular Catalysis, 2018, 455, 1-5.	2.0	30
94	Cuâ€"Ni Bimetal Integrated TiO₂ Thin Film for Enhanced Solar Hydrogen Generation. Solar Rrl, 2020, 4, 1900557.	5.8	30
95	On the Role of Different Adsorption and Reaction Sites on Supported Nanoparticles during a Catalytic Reaction:Â NO Decomposition on a Pd/Alumina Model Catalystâ€. Journal of Physical Chemistry B, 2004, 108, 14244-14254.	2.6	29
96	MgCl₂Â·6CH₃OH: A Simple Molecular Adduct and Its Influence As a Porous Support for Olefin Polymerization. ACS Catalysis, 2013, 3, 303-311.	11.2	29
97	Mechanistic Aspects of Wet and Dry CO Oxidation on Co₃O₄ Nanorod Surfaces: A NAP-UPS Study. ACS Omega, 2017, 2, 828-834.	3.5	29
98	Mapping Valence Band and Interface Electronic Structure Changes during the Oxidation of Mo to MoO₃ via MoO₂ and MoO₃ Reduction to MoO₂: A NAPPES Study. Journal of Physical Chemistry C, 2018, 122, 23034-23044.	3.1	29
99	A MCM-41-supported platinum carbonyl cluster-derived asymmetric hydrogenation catalyst. Journal of Catalysis, 2005, 229, 298-302.	6.2	28
100	MgCl₂Â·4(CH₃)₂CHOH: A New Molecular Adduct and Super<i />Active Polymerization Catalyst Support. Journal of Physical Chemistry C, 2009, 113, 8556-8559.	3.1	28
101	Structure, superconductivity and XPS studies of the Bi2.1Sr1.93Ca0.97â^'xYxCu2O8+y system. Physica C: Superconductivity and Its Applications, 1993, 218, 117-129.	1.2	27
102	A simple one pot synthesis of nano goldâ€"mesoporous silica and its oxidation catalysis. Catalysis Today, 2012, 198, 92-97.	4.4	27
103	Effect of support on the activity of Ga2O3 species for steam reforming of dimethyl ether. Applied Catalysis A: General, 2006, 300, 58-66.	4.3	26
104	Sustainable and Near Ambient DeNO_{<i>x</i>} Under Lean Burn Conditions: A Revisit to NO Reduction on Virgin and Modified Pd(111) Surfaces. ACS Catalysis, 2014, 4, 1801-1811.	11.2	26
105	An efficient Ag-nanoparticle embedded semi-IPN hydrogel for catalytic applications. RSC Advances, 2015, 5, 7567-7574.	3.6	26
106	Efficient Organic Photovoltaics with Improved Charge Extraction and High Short-Circuit Current. Journal of Physical Chemistry C, 2017, 121, 5523-5530.	3.1	26
107	New Strategy toward a Dual Functional Nanocatalyst at Ambient Conditions: Influence of the Pdâ€"Co Interface in the Catalytic Activity of Pd@Co Coreâ€"Shell Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 41268-41278.	8.0	26
108	Catalytic Synthesis of 2-Methyl Pyrazine Over Zn-Modified Zeolites. Catalysis Letters, 2002, 84, 265-272.	2.6	25

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109	Isothermal Kinetic Study of Nitric Oxide Adsorption and Decomposition on Pd(111) Surfaces:Â Molecular Beam Experiments. Journal of Physical Chemistry B, 2005, 109, 13283-13290.	2.6	25
110	Evidence of Cationic Pt Active for Waterâ€“Gas Shift Reaction: Pt-Doped BaCeO₃ Perovskite. Journal of Physical Chemistry C, 2012, 116, 9526-9532.	3.1	25
111	Synthesis and catalytic activity of monodisperse goldâ€“mesoporous silica coreâ€“shell nanocatalysts. Catalysis Science and Technology, 2013, 3, 1190.	4.1	25
112	SBAâ€15â€Oxynitrides as a Solidâ€Base Catalyst: Effect of Nitridation Temperature on Catalytic Activity. Angewandte Chemie - International Edition, 2015, 54, 5985-5989.	13.8	25
113	Is there any Real Effect of Low Dimensional Morphologies towards Light Harvesting? A Case Study of Auâ€“rGOâ€TiO₂ Nanocomposites. ChemistrySelect, 2016, 1, 917-923.	1.5	25
114	Harnessing Visible-Light and Limited Near-IR Photons through Plasmon Effect of Gold Nanorod with AgTiO₂. Journal of Physical Chemistry C, 2018, 122, 1206-1214.	3.1	25
115	Oxidative Disproportionation of MoS₂/GO to MoS₂/MoO_{3â€“<i>x</i>}/RGO : Integrated and Plasmonic 2D-Multifunctional Nanocomposites for Solar Hydrogen Generation from Near-Infrared and Visible Regions. Journal of Physical Chemistry C, 2019, 123, 21685-21693.	3.1	25
116	Unusual charge disproportionation and associated magnetic behaviour in nanocrystalline LaMn0.5Co0.5O3. Journal of Physics Condensed Matter, 2001, 13, 11001-11007.	1.8	24
117	Selective Catalytic Synthesis of 2-Ethyl Phenol over Cu₁₋_xCo_xFe₂O₄â€“Kinetics, Catalysis and XPS Aspects. Catalysis Letters, 2004, 94, 223-236.	2.6	24
118	Effect of fuel and its concentration on the nature of Mn in Mn/CeO2 solid solutions prepared by solution combustion synthesis. Acta Materialia, 2008, 56, 1461-1472.	7.9	24
119	Disordered mesoporous V/TiO2 system for ambient oxidation of sulfides to sulfoxides. Applied Catalysis A: General, 2013, 452, 132-138.	4.3	24
120	Multiple functionalities of Ni nanoparticles embedded in carboxymethyl guar gum polymer: catalytic activity and superparamagnetism. Applied Surface Science, 2017, 405, 231-239.	6.1	24
121	Electronic structure of layered perovskite-relatedSr1â^’yLayNbO3.5â^’x. Physical Review B, 2000, 61, 1876-1883.	3.2	23
122	Kinetic Evidence for the Influence of Subsurface Oxygen on Palladium Surfaces Towards CO Oxidation at High Temperatures. Chemistry - an Asian Journal, 2009, 4, 74-80.	3.3	23
123	Direct solar-to-hydrogen generation by quasi-artificial leaf approach: possibly scalable and economical device. Journal of Materials Chemistry A, 2019, 7, 3179-3189.	10.3	23
124	One-Dimensional Multichannel g-C₃N_{4.7} Nanostructure Realizing an Efficient Photocatalytic Hydrogen Evolution Reaction and Its Theoretical Investigations. ACS Applied Energy Materials, 2021, 4, 3118-3129.	5.1	23
125	Synthesis and characterization of organicâ€“inorganic poly(3,4-ethylenedioxythiophene)/MoS2 nanocomposite via in situ oxidative polymerization. Journal of Materials Research, 2006, 21, 112-118.	2.6	21
126	A nanocomposite of silver and thermo-associating polymer by a green route: a potential softâ€“hard material for controlled drug release. RSC Advances, 2014, 4, 10261.	3.6	21

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127	Diverse reactivity trends of Ni surfaces in Au@Ni coreâ€“shell nanoparticles probed by near ambient pressure (NAP) XPS. Catalysis Science and Technology, 2017, 7, 4489-4498.	4.1	21
128	Directed holey and ordered g-C₃N_{4.5} nanosheets by a hard template nanocasting approach for sustainable visible-light hydrogen evolution with prominent quantum efficiency. Journal of Materials Chemistry A, 2020, 8, 13328-13339.	10.3	21
129	Selective production of methoxyphenols from dihydroxybenzenes on alkali metal ion-loaded MgO. Journal of Catalysis, 2006, 243, 376-388.	6.2	20
130	Selective mono-N-methylation of aniline substrates on Cu1â^’xZnxFe2O4. Applied Catalysis A: General, 2007, 320, 64-68.	4.3	20
131	MgCl2Â·4((CH3)2CHCH2OH): A new molecular adduct for the preparation of TiClx/MgCl2 catalyst for olefin polymerization. Dalton Transactions, 2012, 41, 11311.	3.3	20
132	Palladium Supported on Fluorite Structured Redox CeZrO_{4-Î´}for Heterogeneous Suzuki Coupling in Water: A Green Protocol. ChemistrySelect, 2016, 1, 2673-2681.	1.5	20
133	In-situ experimental and computational approach to investigate the nature of active site in low-temperature CO-PROX over CuOx-CeO2 catalyst. Applied Catalysis A: General, 2021, 624, 118305.	4.3	20
134	Effect of spacer groups on the performance of MCM-41-supported platinum cluster-derived hydrogenation catalysts. Journal of Catalysis, 2006, 242, 332-339.	6.2	19
135	Fabrication of an Effusive Molecular Beam Instrument for Surface Reaction Kineticsâ€"CO Oxidation and NO Reduction on Pd(111) Surfaces. Catalysis Letters, 2007, 119, 50-58.	2.6	19
136	Selective hydrogenation of chloronitrobenzenes with an MCM-41 supported platinum allyl complex derived catalyst. Applied Catalysis A: General, 2011, 399, 117-125.	4.3	19
137	Carbon Dissolution and Segregation in Pd(110). Journal of Physical Chemistry C, 2010, 114, 5060-5067.	3.1	18
138	MgCl2.6PhCH2OH â€“ A new molecular adduct as support material for Zieglerâ€“Natta catalyst: synthesis, characterization and catalytic activity. Dalton Transactions, 2011, 40, 10936.	3.3	18
139	Morphology-dependent, green, and selective catalytic styrene oxidation on Co₃O₄. Dalton Transactions, 2019, 48, 4574-4581.	3.3	18
140	Green synthesis of xanthene and acridine-based heterocycles of pharmaceutical importance: a review. Environmental Chemistry Letters, 2021, 19, 3283-3314.	16.2	18
141	Comparative photoemission studies ofTl2Ba2Canâ^’1CunO2n+4(n=1, 2, and 3). Physical Review B, 1993, 48, 15999-16005.	3.2	16
142	Influence of Cation Exchange on M-Pt-ETS-10 Molecular Sieve:â€‰ Correlation between ab Initio Results, Catalytic Activity, and Physicochemical Investigations. Journal of Physical Chemistry B, 2004, 108, 11541-11548.	2.6	16
143	Câ^’H Activation of Methane to Syngas on Mn_{<i>x</i>}Ce_{1â^’<i>x</i>â^’<i>y</i>}Zr_{<i>y</i>}O₂: A Molecular Beam Study. ChemCatChem, 2016, 8, 2296-2306.	3.7	16
144	Câ^’H Activation of Methane to Formaldehyde on Ce_{1â^’<i>x</i>}Zr_{<i>x</i>}O₂ Thin Films: A Step to Bridge the Material Gap. ChemCatChem, 2016, 8, 3650-3656.	3.7	16

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145	Subtle interaction between Ag and $$hbox {O}_{2}$$ O 2 : a near ambient pressure UV photoelectron spectroscopy (NAP-UPS) investigations. Journal of Chemical Sciences, 2018, 130, 1.	1.5	16
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