Chinnakonda S. Gopinath

List of Publications by Year
in descending order

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	Electronically Integrated Mesoporous Agâ€“TiO₂ Nanocomposite Thin films for Efficient Solar Hydrogen Production in Direct Sunlight. Energy Technology, 2022, 10, 2100356.	3.8	7
2	Concerted effect of Ni-in and S-out on ReS₂ nanostructures towards high-efficiency oxygen evolution reaction. Chemical Communications, 2022, 58, 3689-3692.	4.1	16
3	Sustainable CO₂ Reduction on In₂O₃ with Exclusive CO Selectivity: Catalysis and In Situ Valence Band Photoelectron Spectral Investigations. ACS Sustainable Chemistry and Engineering, 2022, 10, 3521-3531.	6.7	8
4	Enhanced hydrogen fuel production using synergistic combination of solar radiation and TiO2 photocatalyst coupled with Burkholderia cepacia lipase. International Journal of Hydrogen Energy, 2022, 47, 14483-14492.	7.1	7
5	Sulfur Functionalization via Epoxide Ring Opening on a Reduced Graphene Oxide Surface to Form Metal (II) Organo-bis-[1,2]-oxathiin. Inorganic Chemistry, 2022, 61, 279-286.	4.0	3
6	Facile, sustainable and unassisted plain water oxidation on Au/Ce0.9Ti0.1O2 nanorods in direct sunlight. Journal of Chemical Sciences, 2022, 134, .	1.5	7
7	Correction to â€œCan Half-a-Monolayer of Pt Simulate Activity Like That of Bulk Pt? Solar Hydrogen Activity Demonstration with Quasi-artificial Leaf Deviceâ€. ACS Applied Materials & Interfaces, 2022, 14, 32771-32771.	8.0	0
8	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
9	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
10	Green synthesis of xanthene and acridine-based heterocycles of pharmaceutical importance: a review. Environmental Chemistry Letters, 2021, 19, 3283-3314.	16.2	18
11	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
12	Green route for carbonylation of amines by CO2 using Sn-Ni-O bifunctional catalyst and theoretical study for finding best suited active sites. Chemical Engineering Journal, 2021, 419, 129439.	12.7	8
13	Catalytic applications of hydrotalcite and related materials in multi -component reactions: Concepts, challenges and future scope. Sustainable Chemistry and Pharmacy, 2021, 22, 100458.	3.3	5
14	Rationally Designed, Efficient, and Earth-Abundant Niâ€“Fe Cocatalysts for Solar Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2021, 9, 13915-13925.	6.7	12
15	Aqueous Methanol to Formaldehyde and Hydrogen on Pd/TiO₂ by Photocatalysis in Direct Sunlight: Structure Dependent Activity of Nano-Pd and Atomic Pt-Coated Counterparts. ACS Applied Energy Materials, 2021, 4, 13347-13360.	5.1	16
16	Gasâ€“solid interactions with reactive and inert gas molecules by NAPUPS: can work function be a better descriptor of chemical reactivity?. Physical Chemistry Chemical Physics, 2020, 22, 15528-15540.	2.8	5
17	Photocatalytic Hydrogen Production from H₂S using Nanostructured CNT blended CdZnS/Fe²O³Thin Film on Glass Substrate. Journal of Physics: Conference Series, 2020, 1495, 012035.	0.4	3
18	Shape-Controlled Metal Oxides for Selective Catalytic Oxidation. ACS Symposium Series, 2020, , 291-318.	0.5	2

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19	Electronic Structure Evolution of Pd@Co Nanocatalysts Under Oxidation and Reduction Conditions and Preferential CO Oxidation. ChemCatChem, 2020, 12, 4176-4184.	3.7	3
20	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
21	Can Half-a-Monolayer of Pt Simulate Activity Like That of Bulk Pt? Solar Hydrogen Activity Demonstration with Quasi-artificial Leaf Device. ACS Applied Materials & Interfaces, 2020, 12, 30420-30430.	8.0	15
22	Cuâ€“Ni Bimetal Integrated TiO₂ Thin Film for Enhanced Solar Hydrogen Generation. Solar Rrl, 2020, 4, 1900557.	5.8	30
23	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
24	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
25	Probing the effect of selenium substitution in kesterite-Cu2ZnSnS4 nanocrystals prepared by hot injection method. Journal of Materials Science: Materials in Electronics, 2019, 30, 14781-14790.	2.2	8
26	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
27	Phase Transfer Ceria-Supported Nanocatalyst for Nitrile Hydration Reaction. ACS Omega, 2019, 4, 16037-16044.	3.5	7
28	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
29	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
30	Morphology-dependent, green, and selective catalytic styrene oxidation on Co₃O₄. Dalton Transactions, 2019, 48, 4574-4581.	3.3	18
31	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
32	Surfactant free synthesis of Au@Ni core-shell nanochains in aqueous medium as efficient transfer hydrogenation catalyst. Applied Catalysis A: General, 2019, 575, 93-100.	4.3	13
33	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
34	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
35	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
36	Silicon Oxidation by NAPPES: From Dangling Bonds to Oxygen Islands to 2D SiO_{<i>x</i>} Layer to the Onset of Bulk SiO₂ Formation. Journal of Physical Chemistry C, 2018, 122, 4331-4338.	3.1	9

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37	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
38	Marginally Hydrogenated Triphasic Titania Nanotubes for Effective Visibleâ€Light Photocatalytic Hydrogen Generation. Energy Technology, 2018, 6, 280-288.	3.8	9
39	Deposition of Au nanoparticles inside porous CeO2 nanocubes using Langmuirâ€“Blodgett technique. New Journal of Chemistry, 2018, 42, 1379-1386.	2.8	7
40	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
41	CuO_xâ€TiO₂ Composites: Electronically Integrated Nanocomposites for Solar Hydrogen Generation. ChemistrySelect, 2018, 3, 12022-12030.	1.5	30
42	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
43	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
44	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
45	Hydrothermal synthesis of rGOâ€“PbBi2Se4 composite and investigation of its structural, chemical and field emission properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 10494-10503.	2.2	2
46	Role of palladium crystallite size on CO oxidation over CeZrO4-Î´ supported Pd catalysts. Molecular Catalysis, 2018, 455, 1-5.	2.0	30
47	Ambient CO Oxidation on <i>Inâ€Situ</i> Generated Co₃O₄ Spinel Surfaces with Random Morphology. ChemistrySelect, 2017, 2, 533-536.	1.5	14
48	Efficient Organic Photovoltaics with Improved Charge Extraction and High Short-Circuit Current. Journal of Physical Chemistry C, 2017, 121, 5523-5530.	3.1	26
49	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
50	Facile synthesis of ZnOâ€“Ag nanocomposite and its photocatalytic activity. Materials Research Express, 2017, 4, 055011.	1.6	7
51	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
52	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
53	Compositional dependence of electrical conduction in solution grown Zn1âˆ’xCrxSe thin films: a correlation. Journal of Materials Science: Materials in Electronics, 2017, 28, 5070-5074.	2.2	1
54	A Study on Doped Heterojunctions in TiO2 Nanotubes: An Efficient Photocatalyst for Solar Water Splitting. Scientific Reports, 2017, 7, 14314.	3.3	74

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55	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
56	Facile synthesis of Al2O3-Pt nanocomposite and its catalytic activity. Materials Research Express, 2017, 4, 115002.	1.6	0
57	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
58	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
59	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
60	Copper Cobalt Sulfide Nanosheets Realizing a Promising Electrocatalytic Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 5871-5879.	11.2	437
61	Possibly scalable solar hydrogen generation with quasi-artificial leaf approach. Scientific Reports, 2017, 7, 6515.	3.3	43
62	Polymer-based hybrid catalyst of low Pt content for electrochemical hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 22821-22829.	7.1	33
63	Câˆ’H Activation of Methane to Syngas on Mn_{<i>x</i>}Ce_{1âˆ’<i>x</i>âˆ’<i>y</i>}Zr_{<i>y</i>}O₂: A Molecular Beam Study. ChemCatChem, 2016, 8, 2296-2306.	3.7	16
64	Green Leaf to Inorganic Leaf: A Case Study of ZnO. Journal of Nanoscience and Nanotechnology, 2016, 16, 9203-9208.	0.9	13
65	An attempt to correlate surface physics with chemical properties: molecular beam and Kelvin probe investigations of Ce1âˆ’xZrxO2 thin films. Physical Chemistry Chemical Physics, 2016, 18, 27594-27602.	2.8	12
66	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
67	Effective and selective oxidation of 2-butanol over Mn supported catalyst systems. Applied Catalysis A: General, 2016, 525, 237-246.	4.3	10
68	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
69	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
70	Câˆ’H Activation of Methane to Formaldehyde on Ce_{1âˆ’<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
71	Enhancement in Rate of Photocatalysis Upon Catalyst Recycling. Scientific Reports, 2016, 6, 35075.	3.3	41
72	Exploration of magnetically separable Ag@Ag_xNi_y core/graded-alloy-shell nanostructures. Chemical Communications, 2016, 52, 8737-8740.	4.1	8

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73	Seeding of Au on CdSe/CdS nanoplates using Langmuirâ€“Blodgett technique. RSC Advances, 2016, 6, 14658-14665.	3.6	6
74	Porous thin films toward bridging the material gap in heterogeneous catalysis. Journal of Lithic Studies, 2016, 2, 1-12.	0.5	14
75	Three-way catalytic converter reactions aspects at near-ambient temperatures on modified Pd-surfaces. Comptes Rendus Chimie, 2016, 19, 1363-1369.	0.5	6
76	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
77	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
78	Recent developments in solar H2 generation from water splitting. Journal of Chemical Sciences, 2015, 127, 33-47.	1.5	85
79	Can We Shift and/or Broaden the Catalysis Regime towards Ambient Temperature?. ChemCatChem, 2015, 7, 588-594.	3.7	31
80	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
81	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
82	Multifaceted coreâ€“shell nanoparticles: superparamagnetism and biocompatibility. New Journal of Chemistry, 2015, 39, 8513-8521.	2.8	8
83	An efficient Ag-nanoparticle embedded semi-IPN hydrogel for catalytic applications. RSC Advances, 2015, 5, 7567-7574.	3.6	26
84	Role of Nanointerfaces in Cuâ€‘and Cu+Auâ€‘Based Nearâ€‘Ambientâ€‘Temperature CO Oxidation Catalysts. ChemCatChem, 2014, 6, 3116-3124.	3.7	39
85	NO_{<i>x</i>} Reduction at Near Ambient Temperatures and Under Leanâ€‘Burn Conditions on Modified Pd Surfaces. ChemCatChem, 2014, 6, 531-537.	3.7	13
86	Structural investigations of porous MgCl2â€“2-butanol molecular adduct as support for olefin polymerization. Applied Catalysis A: General, 2014, 469, 267-274.	4.3	9
87	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
88	Preferential growth of Au on CdSe quantum dots using Langmuirâ€“Blodgett technique. RSC Advances, 2014, 4, 64535-64541.	3.6	8
89	Disordered Mesoporous TiO_{2âˆ’<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
90	A green chemistry approach to styrene from ethylbenzene and air on Mn_xTi_{1âˆ’x}O₂catalyst. RSC Advances, 2014, 4, 57087-57097.	3.6	9

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91	Electronic structureâ€“sunlight driven water splitting activity correlation of (Zn_{1âˆ’y}Ga_y)(O_{1âˆ’z}N_z). Physical Chemistry Chemical Physics, 2014, 16, 23654-23662.	2.8	12
92	Solid-State NMR Investigations of a MgCl2Â·4(CH3)2CHCH2OH Molecular Adduct: A Peculiar Case of Reversible Equilibrium between Two Phases. Journal of Physical Chemistry A, 2014, 118, 1213-1219.	2.5	1
93	9-Fluorenemethanol: an internal electron donor to fine tune olefin polymerization activity. Dalton Transactions, 2014, 43, 9143.	3.3	2
94	A facile method for the synthesis of Co-core Au-shell nanohybrid. New Journal of Chemistry, 2014, 38, 4107-4114.	2.8	8
95	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
96	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
97	In1âˆ’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
98	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
99	Effect of method of preparation on hydrodesulphurization activity of Co- or Ni-promoted MoS2/SBA-15 catalysts. Journal of Chemical Sciences, 2014, 126, 437-444.	1.5	1
100	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
101	Mapping of Copper Oxidation State Using High Pressure X-Ray Photoelectron Spectroscopy. Acta Physica Polonica A, 2014, 125, 1065-1066.	0.5	6
102	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
103	Aminosilicate solâ€“gel stabilized N-doped TiO2â€“Au nanocomposite materials and their potential environmental remediation applications. RSC Advances, 2013, 3, 13390.	3.6	44
104	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
105	Disordered mesoporous V/TiO2 system for ambient oxidation of sulfides to sulfoxides. Applied Catalysis A: General, 2013, 452, 132-138.	4.3	24
106	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
107	Synthesis and catalytic activity of monodisperse goldâ€“mesoporous silica coreâ€“shell nanocatalysts. Catalysis Science and Technology, 2013, 3, 1190.	4.1	25
108	Hydroxyapatite supported palladium catalysts for Suzukiâ€“Miyaura cross-coupling reaction in aqueous medium. Catalysis Science and Technology, 2013, 3, 1625.	4.1	36

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109	Palladium chloride catalyzed photochemical Heck reaction. Canadian Journal of Chemistry, 2013, 91, 348-351.	1.1	7
110	Functional and Disordered Meso-Macroporous <I>Î³</I>-Al_{2â^’<I>x</I>}M_{<I>x</I>}O<SUB>3Â±< (M = Cu and/or Ce). Journal of Nanoscience and Nanotechnology, 2013, 13, 2682-2688.	0.9	14
111	ZnO-based Solid Solutions for Visible Light Driven Photocatalysis. Transactions of the Materials Research Society of Japan, 2013, 38, 145-158.	0.2	7
112	A simple one pot synthesis of nano goldâ€“mesoporous silica and its oxidation catalysis. Catalysis Today, 2012, 198, 92-97.	4.4	27
113	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
114	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
115	MgCl2Â·6C6H11OH: A High Mileage Porous Support for Zieglerâ€“Natta Catalyst. Journal of Physical Chemistry C, 2012, 116, 24115-24122.	3.1	15
116	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
117	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
118	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
119	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
120	Possible deNO_{<i>x</i>} Management under Net Oxidizing Conditions: A Molecular Beam Study of ¹⁵NO + CO + O₂ Reaction on Pd(111) Surfaces. Journal of Physical Chemistry C, 2011, 115, 21299-21310.	3.1	7
121	Toward an Understanding of the Molecular Level Properties of Zieglerâ^’Natta Catalyst Support with and without the Internal Electron Donor. Journal of Physical Chemistry C, 2011, 115, 1952-1960.	3.1	47
122	Kinetics of Nitric Oxide Adsorption on Pd(111) Surfaces through Molecular Beam Experiments: A Quantitative Study. Journal of Physical Chemistry C, 2011, 115, 15487-15495.	3.1	6
123	Porosity driven photocatalytic activity of wormhole mesoporous TiO2-xNx in direct sunlight. Journal of Materials Chemistry, 2011, 21, 2639.	6.7	159
124	Ligand dynamics controlled reverse spin cross over in bis pyrazolyl pyridine based Fe(II) complex cation with metallodithiolato anions with an example of a ferromagnetic 2:1 cocrystal of mixed Ni(III)/Ni(II) oxidation states. Inorganica Chimica Acta, 2011, 374, 586-600.	2.4	5
125	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
126	Fabrication of homogeneous nanoparticle/nanoneedle BaTiO<SUB align=right>3 and Ba<SUB align=right>0.8Sr<SUB align=right>0.2TiO<SUB align=right>3 smooth thin films by simple dip coating. International Journal of Nanotechnology, 2010, 7, 919.	0.2	4

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127	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
128	Carbon Dissolution and Segregation in Pd(110). Journal of Physical Chemistry C, 2010, 114, 5060-5067.	3.1	18
129	Structure, Electronic Structure, Optical, and Dehydrogenation Catalytic Study of (Zn_{1âˆ’<i>z</i>}In_{<i>z</i>})(O_{1âˆ’<i>x</i>}N_{<i>x</i>}) Solid Solution. Chemistry of Materials, 2010, 22, 565-578.	6.7	57
130	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
131	N,S-Co-doped TiO₂ Nanophotocatalyst: Synthesis, Electronic Structure and Photocatalysis. Journal of Nanoscience and Nanotechnology, 2009, 9, 423-432.	0.9	65
132	Electronic decoupling of surface layers from bulk and its influence in oxidation catalysis: A molecular beam study. Applied Surface Science, 2009, 256, 443-448.	6.1	4
133	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
134	Nitric Oxide Reduction with Ethanol on Palladium Surfaces: A Molecular Beam Study. Journal of Physical Chemistry C, 2009, 113, 9814-9819.	3.1	12
135	A Revisit to Carbon Monoxide Oxidation on Pd(111) Surfaces. Journal of Physical Chemistry C, 2009, 113, 7385-7397.	3.1	42
136	Electronic Structure and Catalytic Study of Solid Solution of GaN in ZnO. Chemistry of Materials, 2009, 21, 2973-2979.	6.7	71
137	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
138	Combustion Synthesis of Triangular and Multifunctional ZnO_{1âˆ’<i>x</i>}N_{<i>x</i>} (<i>x</i> â‰ 0.15) Materials. Chemistry of Materials, 2009, 21, 351-359.	6.7	119
139	Applications of a high performance platinum nanocatalyst for the oxidation of alcohols in water. Green Chemistry, 2009, 11, 554.	9.0	76
140	MCM-41-supported ruthenium carbonyl cluster-derived catalysts for asymmetric hydrogenation reactions. Applied Catalysis A: General, 2008, 344, 124-130.	4.3	14
141	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
142	MCM-41-Supported Organometallic-Derived Nanopalladium as a Selective Hydrogenation Catalyst. Journal of Physical Chemistry C, 2008, 112, 9428-9433.	3.1	49
143	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
144	Selective mono-N-methylation of aniline substrates on Cu1âˆ’xZnxFe2O4. Applied Catalysis A: General, 2007, 320, 64-68.	4.3	20

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