Saim Ã–zkar

List of Publications by Year
in descending order

295 papers	13,700 citations	16411 64 h-index	33814 99 g-index
311 all docs	311 docs citations	311 times ranked	8495 citing authors

#	Article	IF	Citations
1	How to increase the catalytic efficacy of platinumâ€based nanocatalysts for hydrogen generation from the hydrolysis of ammonia borane. International Journal of Energy Research, 2022, 46, 22089-22099.	2.2	5
2	Magnetically separable nickel ferrite supported palladium nanoparticles: Highly reusable catalyst in Sonogashira cross-coupling reaction. Journal of Colloid and Interface Science, 2022, 623, 574-583.	5.0	6
3	A review of the catalytic conversion of glycerol to lactic acid in the presence of aqueous base. RSC Advances, 2022, 12, 18864-18883.	1.7	12
4	Rhodium(0), Ruthenium(0) and Palladium(0) nanoparticles supported on carbon-coated iron: Magnetically isolable and reusable catalysts for hydrolytic dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2021, 46, 13548-13560.	3.8	37
5	A review on platinum(0) nanocatalysts for hydrogen generation from the hydrolysis of ammonia borane. Dalton Transactions, 2021, 50, 12349-12364.	1.6	35
6	LaMer's 1950 model of particle formation: a review and critical analysis of its classical nucleation and fluctuation theory basis, of competing models and mechanisms for phase-changes and particle formation, and then of its application to silver halide, semiconductor, metal, and metal-oxide nanoparticles. Materials Advances, 2021, 2, 186-235.	2.6	58
7	Tungsten(VI) oxide supported rhodium nanoparticles: Highly active catalysts in hydrogen generation from ammonia borane. International Journal of Hydrogen Energy, 2021, 46, 14259-14269.	3.8	18
8	Magnetically separable transition metal nanoparticles as catalysts in hydrogen generation from the hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2021, 46, 21383-21400.	3.8	15
9	Magnetically Isolable Pt⁰/Co₃O₄ Nanocatalysts: Outstanding Catalytic Activity and High Reusability in Hydrolytic Dehydrogenation of Ammonia Borane. ACS Applied Materials & Interfaces, 2021, 13, 34341-34348.	4.0	44
10	Cobalt ferrite supported platinum nanoparticles: Superb catalytic activity and outstanding reusability in hydrogen generation from the hydrolysis of ammonia borane. Journal of Colloid and Interface Science, 2021, 596, 100-107.	5.0	54
11	Recent advances in heterogeneous catalysts for the effective electroreduction of carbon dioxide to carbon monoxide. Journal of Power Sources, 2021, 506, 230215.	4.0	22
12	Transition metal nanoparticle catalysts in releasing hydrogen from the methanolysis of ammonia borane. International Journal of Hydrogen Energy, 2020, 45, 7881-7891.	3.8	40
13	Synthesis of zinc borate using water soluble additives: Kinetics and product characterization. Journal of Crystal Growth, 2020, 533, 125461.	0.7	4
14	Ceria Supported Nickel(0) Nanoparticles: A Highly Active and Low Cost Electrocatalyst for Hydrogen Evolution Reaction. Journal of the Electrochemical Society, 2020, 167, 106513.	1.3	8
15	Particle Size Distributions via Mechanism-Enabled Population Balance Modeling. Journal of Physical Chemistry C, 2020, 124, 4852-4880.	1.5	30
16	Dust Effects on Ir(0)n Nanoparticle Formation Nucleation and Growth Kinetics and Particle Size-Distributions: Analysis by and Insights from Mechanism-Enabled Population Balance Modeling. Langmuir, 2020, 36, 1496-1506.	1.6	12
17	Magnetically Separable Rh⁰/Co₃O₄ Nanocatalyst Provides over a Million Turnovers in Hydrogen Release from Ammonia Borane. ACS Sustainable Chemistry and Engineering, 2020, 8, 4216-4224.	3.2	64
18	Highly active, robust and reusable micro-/mesoporous TiN/Si3N4 nanocomposite-based catalysts for clean energy: Understanding the key role of TiN nanoclusters and amorphous Si3N4 matrix in the performance of the catalyst system. Applied Catalysis B: Environmental, 2020, 272, 118975.	10.8	28

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19	Activated carbon derived from tea waste: A promising supporting material for metal nanoparticles used as catalysts in hydrolysis of ammonia borane. Biomass and Bioenergy, 2020, 138, 105589.	2.9	47
20	LaMerâ€™s 1950 Model for Particle Formation of Instantaneous Nucleation and Diffusion-Controlled Growth: A Historical Look at the Modelâ€™s Origins, Assumptions, Equations, and Underlying Sulfur Sol Formation Kinetics Data. Chemistry of Materials, 2019, 31, 7116-7132.	3.2	111
21	Ceria supported ruthenium nanoparticles: Remarkable catalyst for H2 evolution from dimethylamine borane. International Journal of Hydrogen Energy, 2019, 44, 26296-26307.	3.8	22
22	Mechanism-Enabled Population Balance Modeling of Particle Formation en Route to Particle Average Size and Size Distribution Understanding and Control. Journal of the American Chemical Society, 2019, 141, 15827-15839.	6.6	48
23	Immobilized Polyoxomolybdate Nanoclusters on Functionalized SBAâ€15: Green Access to Efficient and Recyclable Nanocatalyst for the Epoxidation of Alkenes. ChemistrySelect, 2019, 4, 5911-5917.	0.7	8
24	Nanoparticle Formation Kinetics and Mechanistic Studies Important to Mechanism-Based Particle-Size Control: Evidence for Ligand-Based Slowing of the Autocatalytic Surface Growth Step Plus Postulated Mechanisms. Journal of Physical Chemistry C, 2019, 123, 14047-14057.	1.5	13
25	Magnetically separable rhodium nanoparticles as catalysts for releasing hydrogen from the hydrolysis of ammonia borane. Journal of Colloid and Interface Science, 2019, 553, 581-587.	5.0	50
26	Nanoalumina supported palladium(0) nanoparticle catalyst for releasing H2 from dimethylamine borane. Applied Surface Science, 2019, 487, 433-441.	3.1	15
27	Noble metal nanoparticles supported on activated carbon: Highly recyclable catalysts in hydrogen generation from the hydrolysis of ammonia borane. Journal of Colloid and Interface Science, 2019, 546, 324-332.	5.0	84
28	Group 4 oxides supported Rhodium(0) catalysts in hydrolytic dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2019, 44, 14164-14174.	3.8	35
29	Decomposition of formic acid using tungsten(VI) oxide supported AgPd nanoparticles. Journal of Colloid and Interface Science, 2019, 538, 682-688.	5.0	19
30	Ceria supported ruthenium(0) nanoparticles: Highly efficient catalysts in oxygen evolution reaction. Journal of Colloid and Interface Science, 2019, 534, 704-710.	5.0	37
31	Nanoceria-Supported Ruthenium(0) Nanoparticles: Highly Active and Stable Catalysts for Hydrogen Evolution from Water. ACS Applied Materials & Interfaces, 2018, 10, 6299-6308.	4.0	80
32	Ammonia borane as hydrogen storage materials. International Journal of Hydrogen Energy, 2018, 43, 18592-18606.	3.8	174
33	Nanozirconia supported ruthenium(0) nanoparticles: Highly active and reusable catalyst in hydrolytic dehydrogenation of ammonia borane. Journal of Colloid and Interface Science, 2018, 513, 287-294.	5.0	56
34	Supported Nanoparticles for Liquid-Phase Catalysis. , 2018, , 607-624.		1
35	â€œWeakly Ligated, Labile Ligandâ€•Nanoparticles: The Case of Ir(0)<i>_n</i>Â·(H⁺Cl^{â€“})<i>_m</i>. ACS Omega, 2018, 3, 14538-14550.	1.6	9
36	Metal Nanoparticles in Liquid Phase Catalysis. , 2018, , 497-519.		0

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37	Synthesis, characterization, photophysical and electrochemical properties of a new nonâ€planar perylene diimide with electron donating substituent. Optical Materials, 2018, 82, 30-38.	1.7	4
38	Preparation and characterization of a new CdSâ€“NiFe2O4/reduced graphene oxide photocatalyst and its use for degradation of methylene blue under visible light irradiation. Research on Chemical Intermediates, 2018, 44, 5953-5979.	1.3	29
39	Nanoceria supported rhodium(0) nanoparticles as catalyst for hydrogen generation from methanolysis of ammonia borane. Applied Catalysis B: Environmental, 2018, 237, 1012-1020.	10.8	79
40	Ruthenium(0) nanoparticles supported on silica coated Fe3O4 as magnetically separable catalysts for hydrolytic dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2018, 43, 15124-15134.	3.8	49
41	Oxidation of oâ€phenylenediamine to 2,3â€diaminophenazine in the presence of cubic ferrites MFe₂O₄ (M = Mn, Co, Ni, Zn) and the application in colorimetric detection of H₂O₂. Applied Organometallic Chemistry, 2018, 32, e4465.	1.7	56
42	Rhodium(0) nanoparticles supported on ceria as catalysts in hydrogenation of neat benzene at room temperature. Journal of Colloid and Interface Science, 2018, 530, 459-464.	5.0	23
43	Ceria supported manganese(0) nanoparticle catalysts for hydrogen generation from the hydrolysis of sodium borohydride. International Journal of Hydrogen Energy, 2018, 43, 15262-15274.	3.8	34
44	Titania, zirconia and hafnia supported ruthenium(0) nanoparticles: Highly active hydrogen evolution catalysts. Journal of Colloid and Interface Science, 2018, 531, 570-577.	5.0	15
45	Nanoceria supported palladium(0) nanoparticles: Superb catalyst in dehydrogenation of formic acid at room temperature. Applied Catalysis B: Environmental, 2017, 206, 384-392.	10.8	112
46	Palladium(0) nanoparticles supported on polydopamine coated CoFe 2 O 4 as highly active, magnetically isolable and reusable catalyst for hydrogen generation from the hydrolysis of ammonia borane. Applied Catalysis B: Environmental, 2017, 208, 104-115.	10.8	141
47	Enhanced reactivity in a heterogeneous oxido-peroxido molybdenum(VI) complex of salicylidene 2-picoloyl hydrazone in catalytic epoxidation of olefins. Transition Metal Chemistry, 2017, 42, 357-363.	0.7	4
48	Ceria supported copper(0) nanoparticles as efficient and cost-effective catalyst for the dehydrogenation of dimethylamine borane. Molecular Catalysis, 2017, 434, 57-68.	1.0	14
49	Oxazine containing molybdenum(VI)â€“oxodiperoxo complex immobilized on SBA-15 as highly active and selective catalyst in the oxidation of alkenes to epoxides under solvent-free conditions. Microporous and Mesoporous Materials, 2017, 251, 173-180.	2.2	12
50	Nanoceria supported cobalt(0) nanoparticles: a magnetically separable and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane. New Journal of Chemistry, 2017, 41, 6546-6552.	1.4	44
51	Nanoparticle Nucleation Is Termolecular in Metal and Involves Hydrogen: Evidence for a Kinetically Effective Nucleus of Three {Ir3H2xÂ·P2W15Nb3O62}6â€“ in Ir(0)n Nanoparticle Formation From [(1,5-COD)IrÂ·P2W15Nb3O62]8â€“ Plus Dihydrogen. Journal of the American Chemical Society, 2017, 139, 5444-5457.	6.6	46
52	Oleylamineâ€Stabilized Copper(0) Nanoparticles: An Efficient and Lowâ€Cost Catalyst for the Dehydrogenation of Dimethylamine Borane. ChemCatChem, 2017, 9, 2588-2598.	1.8	14
53	Ruthenium(0) nanoparticles supported on nanohafnia: A highly active and long-lived catalyst in hydrolytic dehydrogenation of ammonia borane. Molecular Catalysis, 2017, 430, 29-35.	1.0	36
54	Nickel(0) nanoparticles supported on bare or coated cobalt ferrite as highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane. Journal of Colloid and Interface Science, 2017, 508, 359-368.	5.0	54

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55	A Classic Azoâ€“Dye Agglomeration System: Evidence for Slow, Continuous Nucleation, Autocatalytic Agglomerative Growth, Plus the Effects of Dust Removal by Microfiltration on the Kinetics. Journal of Physical Chemistry A, 2017, 121, 7071-7078.	1.1	7
56	Nanotitaniaâ€Supported Rhodium(0) Nanoparticles: Superb Catalyst in Dehydrogenation of Dimethylamine Borane. ChemistrySelect, 2017, 2, 5751-5759.	0.7	4
57	Silver Nanoparticles Synthesized by Microwave Heating: A Kinetic and Mechanistic Re-Analysis and Re-Interpretation. Journal of Physical Chemistry C, 2017, 121, 27643-27654.	1.5	29
58	Dust Effects on Nucleation Kinetics and Nanoparticle Product Size Distributions: Illustrative Case Study of a Prototype Ir(0)_{<i>n</i>} Transition-Metal Nanoparticle Formation System. Langmuir, 2017, 33, 6550-6562.	1.6	24
59	Nanoalumina-supported rhodium(0) nanoparticles as catalyst in hydrogen generation from the methanolysis of ammonia borane. Molecular Catalysis, 2017, 439, 50-59.	1.0	40
60	Palladium(0) Nanoparticle Formation, Stabilization, and Mechanistic Studies: Pd(acac)₂ as a Preferred Precursor, [Bu₄N]₂HPO₄ Stabilizer, plus the Stoichiometry, Kinetics, and Minimal, Four-Step Mechanism of the Palladium Nanoparticle Formation and Subsequent Agglomeration Reactions. Langmuir, 2016, 32, 3699-3716.	1.6	32
61	Palladium(0) nanoparticles supported on ceria: Highly active and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2016, 41, 11154-11162.	3.8	108
62	Inverse relation between the catalytic activity and catalyst concentration for the ruthenium(0) nanoparticles supported on xonotlite nanowire in hydrogen generation from the hydrolysis of sodium borohydride. Journal of Molecular Catalysis A, 2016, 424, 254-260.	4.8	25
63	Facile Synthesis of Threeâ€Dimensional Ptâ€TiO₂ Nanoâ€networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammoniaâ€“Borane. Angewandte Chemie - International Edition, 2016, 55, 12257-12261.	7.2	141
64	Facile Synthesis of Threeâ€Dimensional Ptâ€TiO₂ Nanoâ€networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammoniaâ€“Borane. Angewandte Chemie, 2016, 128, 12445-12449.	1.6	35
65	Palladium(0) nanoparticles supported on polydopamine coated Fe₃O₄ as magnetically isolable, highly active and reusable catalysts for hydrolytic dehydrogenation of ammonia borane. RSC Advances, 2016, 6, 102035-102042.	1.7	61
66	Ceria supported rhodium nanoparticles: Superb catalytic activity in hydrogen generation from the hydrolysis of ammonia borane. Applied Catalysis B: Environmental, 2016, 198, 162-170.	10.8	219
67	Ceria-supported ruthenium nanoparticles as highly active and long-lived catalysts in hydrogen generation from the hydrolysis of ammonia borane. Dalton Transactions, 2016, 45, 10969-10978.	1.6	83
68	Synthesis, characterization, and catalytic activity of supported molybdenum Schiff base complex as a magneticallyÂrecoverable nanocatalyst in epoxidation reaction. Journal of Coordination Chemistry, 2016, 69, 668-677.	0.8	17
69	Immobilization of a molybdenum complex on the surface of magnetic nanoparticles for the catalytic epoxidation of olefins. New Journal of Chemistry, 2016, 40, 1580-1586.	1.4	29
70	Highly active and long lived homogeneous catalyst for the dehydrogenation of dimethylamine borane starting with ruthenium(III) acetylacetonate and oleylamine precatalyst. Journal of Molecular Catalysis A, 2016, 411, 9-18.	4.8	14
71	Rhodium(0) nanoparticles supported on nanosilica: Highly active and long lived catalyst in hydrogen generation from the methanolysis of ammonia borane. Applied Catalysis B: Environmental, 2016, 181, 716-726.	10.8	71
72	Flame retardancy and mechanical properties of petâ€based composites containing phosphorus and boronâ€based additives. Journal of Applied Polymer Science, 2015, 132, .	1.3	29

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73	A New Homogeneous Catalyst for the Dehydrogenation of Dimethylamine Borane Starting with Ruthenium(III) Acetylacetonate. Materials, 2015, 8, 3155-3167.	1.3	16
74	Dihydrogen Phosphate Stabilized Ruthenium(0) Nanoparticles: Efficient Nanocatalyst for The Hydrolysis of Ammonia-Borane at Room Temperature. Materials, 2015, 8, 4226-4238.	1.3	12
75	A ruthenium(II) bipyridine complex containing a 4,5-diazafluorene moiety: Synthesis, characterization and its applications in transfer hydrogenation of ketones and dye sensitized solar cells. Polyhedron, 2015, 89, 55-61.	1.0	11
76	Poly(4-styrenesulfonic acid-co-maleic acid) stabilized cobalt(0) nanoparticles: A cost-effective and magnetically recoverable catalyst in hydrogen generation from the hydrolysis of hydrazine borane. International Journal of Hydrogen Energy, 2015, 40, 2255-2265.	3.8	33
77	Rhodium(0) nanoparticles supported on hydroxyapatite nanospheres and further stabilized by dihydrogen phosphate ion: A highly active catalyst in hydrogen generation from the methanolysis of ammonia borane. International Journal of Hydrogen Energy, 2015, 40, 10491-10501.	3.8	53
78	The story of a mechanism-based solution to an irreproducible synthesis resulting in an unexpected closed-system requirement for the LiBEt3H-based reduction: The case of the novel subnanometer cluster, [Ir(1,5-COD)(Î¼-H)]4, and the resulting improved, independently repeatable, reliable synthesis. Inorganica Chimica Acta, 2015, 432, 250-257.	1.2	6
79	Agglomerative Sintering of an Atomically Dispersed Ir₁/Zeolite Y Catalyst: Compelling Evidence Against Ostwald Ripening but for Bimolecular and Autocatalytic Agglomeration Catalyst Sintering Steps. ACS Catalysis, 2015, 5, 3514-3527.	5.5	66
80	Unintuitive Inverse Dependence of the Apparent Turnover Frequency on Precatalyst Concentration: A Quantitative Explanation in the Case of Ziegler-Type Nanoparticle Catalysts Made from [(1,5-COD)Ir(Î¼-O₂C₈H₁₅)]₂ and AlEt₃. ACS Catalysis, 2015, 5, 3342-3353.	5.5	27
81	PVP-stabilized nickel(0) nanoparticles as catalyst in hydrogen generation from the methanolysis of hydrazine borane or ammonia borane. Applied Catalysis B: Environmental, 2015, 162, 573-582.	10.8	118
82	Electrochemical Behavior of Hydrazine Borane in Methanol Solution. Journal of the Electrochemical Society, 2014, 161, F1171-F1175.	1.3	1
83	Immobilization of dioxomolybdenum(VI) complex bearing salicylidene 2-picoloyl hydrazone on chloropropyl functionalized SBA-15: A highly active, selective and reusable catalyst in olefin epoxidation. Applied Catalysis A: General, 2014, 475, 55-62.	2.2	45
84	Triniobium, Wellsâ€"Dawson-Type Polyoxoanion, [(<i>n</i>-C₄H₉)₄N]₉P₂W₁₅Nb₃O<sub>6 Improvements in the Synthesis, Its Reliability, the Purity of the Product, and the Detailed Synthetic Procedure. Inorganic Chemistry, 2014, 53, 2666-2676.	1.9	17
85	Ruthenium(0) nanoparticles supported on nanotitania as highly active and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2014, 39, 9628-9637.	3.8	105
86	Ruthenium(III) ion-exchanged zeolite Y as highly active and reusable catalyst in decomposition of nitrous oxide to sole nitrogen and oxygen. Microporous and Mesoporous Materials, 2014, 196, 51-58.	2.2	9
87	Palladium(0) nanoparticles supported on metal organic framework as highly active and reusable nanocatalyst in dehydrogenation of dimethylamine-borane. Applied Catalysis B: Environmental, 2014, 147, 394-401.	10.8	60
88	Palladium(0) nanoparticles supported on silica-coated cobalt ferrite: A highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane. Applied Catalysis B: Environmental, 2014, 147, 387-393.	10.8	139
89	Ruthenium(0) nanoparticles supported on xonotlite nanowire: a long-lived catalyst for hydrolytic dehydrogenation of ammonia-borane. Dalton Transactions, 2014, 43, 1797-1805.	1.6	63
90	Ruthenium(0) nanoparticles stabilized by metal-organic framework (ZIF-8): Highly efficient catalyst for the dehydrogenation of dimethylamine-borane and transfer hydrogenation of unsaturated hydrocarbons using dimethylamine-borane as hydrogen source. Applied Catalysis B: Environmental, 2014, 160-161, 534-541.	10.8	107

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91	Rhodium(0) nanoparticles supported on nanotitania as highly active catalyst in hydrogen generation from the hydrolysis of ammonia borane. RSC Advances, 2014, 4, 13742-13748.	1.7	48
92	Hydroxyapatite-nanosphere supported ruthenium(0) nanoparticle catalyst for hydrogen generation from ammonia-borane solution: kinetic studies for nanoparticle formation and hydrogen evolution. RSC Advances, 2014, 4, 28947-28955.	1.7	35
93	Ruthenium(0) nanoparticles supported on magnetic silica coated cobalt ferrite: Reusable catalyst in hydrogen generation from the hydrolysis of ammonia-borane. Journal of Molecular Catalysis A, 2014, 394, 253-261.	4.8	46
94	Epoxidation of olefins catalyzed by a molybdenum-Schiff base complex anchored in the pores of SBA-15. Journal of Molecular Catalysis A, 2014, 395, 470-480.	4.8	35
95	Iridium(0) nanoparticles dispersed in zeolite framework: A highly active and long-lived green nanocatalyst for the hydrogenation of neat aromatics at room temperature. Applied Catalysis B: Environmental, 2014, 148-149, 466-472.	10.8	45
96	Transition Metal Nanoparticles as Catalyst in Hydrogen Generation from the Boron-Based Hydrogen Storage Materials. , 2013, , 165-189.		6
97	Transition Metal Nanoparticles in Catalysis for the Hydrogen Generation from the Hydrolysis of Ammonia-Borane. Topics in Catalysis, 2013, 56, 1171-1183.	1.3	72
98	Exceptionally thermally stable, hydrocarbon soluble Ziegler-type Ir(0)n nanoparticle catalysts made from [Ir(1,5-COD)(Î¼-O2C8H15)]2 plus AlEt3: Tests of key hypotheses for their unusual stabilization. Journal of Molecular Catalysis A, 2013, 378, 333-343.	4.8	12
99	Surfactant modified zinc borate synthesis and its effect on the properties of PET. Powder Technology, 2013, 244, 38-44.	2.1	16
100	Poly(4-styrenesulfonic acid-co-maleic acid) stabilized nickel(0) nanoparticles: Highly active and cost effective catalyst in hydrogen generation from the hydrolysis of hydrazine borane. International Journal of Hydrogen Energy, 2013, 38, 14693-14703.	3.8	33
101	Oleylamine-stabilized ruthenium(0) nanoparticles catalyst in dehydrogenation of dimethylamine-borane. International Journal of Hydrogen Energy, 2013, 38, 10000-10011.	3.8	25
102	One-pot synthesis of 1,2/3-triols from the allylic hydroperoxides catalyzed by zeolite-confined osmium(0) nanoclusters. Journal of Molecular Catalysis A, 2013, 378, 142-147.	4.8	7
103	Kinetics of hydrogen generation from hydrolysis of sodium borohydride on Pt/C catalyst in a flow reactor. International Journal of Energy Research, 2013, 37, 443-448.	2.2	43
104	Hydroxyapatite supported ruthenium(0) nanoparticles catalyst in hydrolytic dehydrogenation of ammonia borane: Insight to the nanoparticles formation and hydrogen evolution kinetics. Applied Catalysis B: Environmental, 2013, 142-143, 187-195.	10.8	91
105	Hydrogen generation from the dehydrogenation of ammoniaâ€“borane in the presence of ruthenium(III) acetylacetonate forming a homogeneous catalyst. International Journal of Hydrogen Energy, 2013, 38, 180-187.	3.8	22
106	Bâ€“N Polymer Embedded Iron(0) Nanoparticles as Highly Active and Long Lived Catalyst in the Dehydrogenation of Ammonia Borane. Journal of Nanoscience and Nanotechnology, 2013, 13, 4954-4961.	0.9	7
107	Copper(0) Nanoparticles Supported on Silica-Coated Cobalt Ferrite Magnetic Particles: Cost Effective Catalyst in the Hydrolysis of Ammonia-Borane with an Exceptional Reusability Performance. ACS Applied Materials & Interfaces, 2012, 4, 3866-3873.	4.0	96
108	Size-controllable APTS stabilized ruthenium(0)nanoparticlescatalyst for the dehydrogenation of dimethylamineâ€“borane at room temperature. Dalton Transactions, 2012, 41, 590-598.	1.6	51

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109	Dihydroxylation of olefins catalyzed by zeolite-confined osmium(0) nanoclusters: an efficient and reusable method for the preparation of 1,2-cis-diols. Green Chemistry, 2012, 14, 1488.	4.6	27
110	Hydrogen liberation from the hydrolytic dehydrogenation of dimethylamineâ€“borane at room temperature by using a novel ruthenium nanocatalyst. Dalton Transactions, 2012, 41, 4976.	1.6	53
111	A facile one-step synthesis of polymer supported rhodium nanoparticles in organic medium and their catalytic performance in the dehydrogenation of ammonia-borane. Chemical Communications, 2012, 48, 1180-1182.	2.2	47
112	Synthesis and Characterization of [Ir(1,5-Cyclooctadiene)(Î¼-H)]₄: A Tetrametallic Ir₄H₄-Core, Coordinatively Unsaturated Cluster. Inorganic Chemistry, 2012, 51, 3186-3193.	1.9	17
113	CHAPTER 3. Preparation of Metal Nanoparticles Stabilized by the Framework of Porous Materials. RSC Green Chemistry, 2012, , 34-66.	0.0	2
114	Hydrocarbon-Soluble, Isolable Ziegler-Type Ir(0)_{<i>n</i>} Nanoparticle Catalysts Made from [(1,5-COD)Ir(Î¼-O₂C₈H₁₅)]₂ and 2â€“5 Equivalents of AlEt₃: Their High Catalytic Activity, Long Lifetime, and AlEt₃-Dependent, Exceptional, 200 Â°C Thermal Stability. ACS Catalysis, 2012, 2, 632-641.	5.5	14
115	Ruthenium(0) Nanoparticles Supported on Multiwalled Carbon Nanotube As Highly Active Catalyst for Hydrogen Generation from Ammoniaâ€“Borane. ACS Applied Materials & Interfaces, 2012, 4, 6302-6310.	4.0	183
116	Catalytic methanolysis of hydrazine borane: a new and efficient hydrogen generation system under mild conditions. Dalton Transactions, 2012, 41, 4912.	1.6	28
117	Hydroxyapatite-supported cobalt(0) nanoclusters as efficient and cost-effective catalyst for hydrogen generation from the hydrolysis of both sodium borohydride and ammonia-borane. Catalysis Today, 2012, 183, 17-25.	2.2	144
118	Water soluble polymer stabilized iron(0) nanoclusters: A cost-effective and magnetically recoverable catalyst in hydrogen generation from the hydrolysis of sodium borohydride and ammonia borane. Catalysis Today, 2012, 183, 10-16.	2.2	70
119	Hydrogen generation from the hydrolysis of hydrazine-borane catalyzed by rhodium(0) nanoparticles supported on hydroxyapatite. International Journal of Hydrogen Energy, 2012, 37, 5143-5151.	3.8	63
120	Palladium nanoparticles supported on chemically derived graphene: An efficient and reusable catalyst for the dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2012, 37, 8161-8169.	3.8	132
121	Hydrogen generation from hydrolysis of ammonia-borane using Pdâ€“PVBâ€“TiO2 and Coâ€“Niâ€“P/Pdâ€“TiO2 under stirred conditions. Journal of Power Sources, 2012, 210, 184-190.	4.0	27
122	Effect of silver encapsulation on the local structure of titanosilicate ETS-10. Microporous and Mesoporous Materials, 2012, 159, 1-8.	2.2	15
123	Novel homogeneous catalyst comprising ruthenium and trimethylphosphite for the hydrolysis of sodium borohydride. Journal of Molecular Catalysis A, 2012, 355, 186-191.	4.8	11
124	Oleylamine-Stabilized Palladium(0) Nanoclusters As Highly Active Heterogeneous Catalyst for the Dehydrogenation of Ammonia Borane. Journal of Physical Chemistry C, 2011, 115, 10736-10743.	1.5	69
125	Industrial Ziegler-Type Hydrogenation Catalysts Made from Co(neodecanoate)₂ or Ni(2-ethylhexanoate)₂ and AlEt₃: Evidence for Nanoclusters and Sub-Nanocluster or Larger Ziegler-Nanocluster Based Catalysis. Langmuir, 2011, 27, 6279-6294.	1.6	25
126	One-pot synthesis of colloidally robust rhodium(0) nanoparticles and their catalytic activity in the dehydrogenation of ammonia-borane for chemical hydrogen storage. Dalton Transactions, 2011, 40, 3584.	1.6	27

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127	Cobaltâ€“nickelâ€“phosphorus supported on Pd-activated TiO2 (Coâ€“Niâ€“P/Pd-TiO2) as cost-effective and reusable catalyst for hydrogen generation from hydrolysis of alkaline sodium borohydride solution. Journal of Alloys and Compounds, 2011, 509, 7016-7021.	2.8	90
128	Metal nanoparticles in liquid phase catalysis; from recent advances to future goals. Nanoscale, 2011, 3, 3462.	2.8	263
129	Is It Homogeneous or Heterogeneous Catalysis Derived from [RhCp*Cl₂]₂?<i>In Operando</i>XAFS, Kinetic, and Crucial Kinetic Poisoning Evidence for Subnanometer Rh₄Cluster-Based Benzene Hydrogenation Catalysis. Journal of the American Chemical Society, 2011, 133, 18889-18902.	6.6	147
130	Aminophosphineâ€“palladium(II) complexes: Synthsesis, structure and applications in Suzuki and Heck cross-coupling reactions. Inorganica Chimica Acta, 2011, 378, 10-18.	1.2	30
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