

Saim zkar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

304
papers

11,450
citations

60
h-index

90
g-index

311
ext. papers

12,641
ext. citations

6.1
avg, IF

7.12
L-index

#	Paper	IF	Citations
304	Tungsten(VI) oxide supported rhodium nanoparticles: Highly active catalysts in hydrogen generation from ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 14259-14269	6.7	4
303	Magnetically separable transition metal nanoparticles as catalysts in hydrogen generation from the hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21383-21400	6.7	6
302	Magnetically Isolable Pt/CoO Nanocatalysts: Outstanding Catalytic Activity and High Reusability in Hydrolytic Dehydrogenation of Ammonia Borane. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34341-34348	9.5	48
301	Rhodium(0), Ruthenium(0) and Palladium(0) nanoparticles supported on carbon-coated iron: Magnetically isolable and reusable catalysts for hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 13548-13560	6.7	22
300	A review on platinum(0) nanocatalysts for hydrogen generation from the hydrolysis of ammonia borane. <i>Dalton Transactions</i> , 2021 , 50, 12349-12364	4.3	6
299	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. <i>Materials Advances</i> , 2021 , 2, 186-235	3.3	20
298	Cobalt ferrite supported platinum nanoparticles: Superb catalytic activity and outstanding reusability in hydrogen generation from the hydrolysis of ammonia borane. <i>Journal of Colloid and Interface Science</i> , 2021 , 596, 100-107	9.3	17
297	Recent advances in heterogeneous catalysts for the effective electroreduction of carbon dioxide to carbon monoxide. <i>Journal of Power Sources</i> , 2021 , 506, 230215	8.9	5
296	Particle Size Distributions via Mechanism-Enabled Population Balance Modeling. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4852-4880	3.8	19
295	Dust Effects on Ir(0) Nanoparticle Formation Nucleation and Growth Kinetics and Particle Size-Distributions: Analysis by and Insights from Mechanism-Enabled Population Balance Modeling. <i>Langmuir</i> , 2020 , 36, 1496-1506	4	8
294	Magnetically Separable Rh ⁰ /Co ₃ O ₄ Nanocatalyst Provides over a Million Turnovers in Hydrogen Release from Ammonia Borane. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4216-4224	8.3	36
293	Highly active, robust and reusable micro-/mesoporous TiN/Si ₃ N ₄ nanocomposite-based catalysts for clean energy: Understanding the key role of TiN nanoclusters and amorphous Si ₃ N ₄ matrix in the performance of the catalyst system. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118975	21.8	12
292	Activated carbon derived from tea waste: A promising supporting material for metal nanoparticles used as catalysts in hydrolysis of ammonia borane. <i>Biomass and Bioenergy</i> , 2020 , 138, 105589	5.3	24
291	Synthesis of zinc borate using water soluble additives: Kinetics and product characterization. <i>Journal of Crystal Growth</i> , 2020 , 533, 125461	1.6	0
290	Ceria Supported Nickel(0) Nanoparticles: A Highly Active and Low Cost Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 106513	3.9	4
289	Transition metal nanoparticle catalysts in releasing hydrogen from the methanolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7881-7891	6.7	23
288	LaMer's 1950 Model for Particle Formation of Instantaneous Nucleation and Diffusion-Controlled Growth: A Historical Look at the Model's Origins, Assumptions, Equations, and Underlying Sulfur Sol Formation Kinetics Data. <i>Chemistry of Materials</i> , 2019 , 31, 7116-7132	9.6	60

287	Ceria supported ruthenium nanoparticles: Remarkable catalyst for H ₂ evolution from dimethylamine borane. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 26296-26307	6.7	11
286	Mechanism-Enabled Population Balance Modeling of Particle Formation en Route to Particle Average Size and Size Distribution Understanding and Control. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15827-15839	16.4	29
285	Immobilized Polyoxomolybdate Nanoclusters on Functionalized SBA-15: Green Access to Efficient and Recyclable Nanocatalyst for the Epoxidation of Alkenes. <i>ChemistrySelect</i> , 2019 , 4, 5911-5917	1.8	6
284	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. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14047-14057	3.8	12
283	Magnetically separable rhodium nanoparticles as catalysts for releasing hydrogen from the hydrolysis of ammonia borane. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 581-587	9.3	28
282	Nanoalumina supported palladium(0) nanoparticle catalyst for releasing H ₂ from dimethylamine borane. <i>Applied Surface Science</i> , 2019 , 487, 433-441	6.7	10
281	Noble metal nanoparticles supported on activated carbon: Highly recyclable catalysts in hydrogen generation from the hydrolysis of ammonia borane. <i>Journal of Colloid and Interface Science</i> , 2019 , 546, 324-332	9.3	55
280	Group 4 oxides supported Rhodium(0) catalysts in hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14164-14174	6.7	29
279	Decomposition of formic acid using tungsten(VI) oxide supported AgPd nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019 , 538, 682-688	9.3	12
278	Ceria supported ruthenium(0) nanoparticles: Highly efficient catalysts in oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 704-710	9.3	25
277	Nanoceria-Supported Ruthenium(0) Nanoparticles: Highly Active and Stable Catalysts for Hydrogen Evolution from Water. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6299-6308	9.5	60
276	Ammonia borane as hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18592-18606	6.7	103
275	Ruthenium(0) nanoparticles supported on silica coated Fe ₃ O ₄ as magnetically separable catalysts for hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15124-15134	6.7	39
274	Oxidation of o-phenylenediamine to 2,3-diaminophenazine in the presence of cubic ferrites MFe ₂ O ₄ (M = Mn, Co, Ni, Zn) and the application in colorimetric detection of H ₂ O ₂ . <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4465	3.1	36
273	Rhodium(0) nanoparticles supported on ceria as catalysts in hydrogenation of neat benzene at room temperature. <i>Journal of Colloid and Interface Science</i> , 2018 , 530, 459-464	9.3	17
272	Ceria supported manganese(0) nanoparticle catalysts for hydrogen generation from the hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15262-15274	6.7	28
271	Titania, zirconia and hafnia supported ruthenium(0) nanoparticles: Highly active hydrogen evolution catalysts. <i>Journal of Colloid and Interface Science</i> , 2018 , 531, 570-577	9.3	9
270	Nanozirconia supported ruthenium(0) nanoparticles: Highly active and reusable catalyst in hydrolytic dehydrogenation of ammonia borane. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 287-294	9.3	41

269	Supported Nanoparticles for Liquid-Phase Catalysis 2018 , 607-624		0
268	"Weakly Ligated, Labile Ligand" Nanoparticles: The Case of Ir(0) [HCl]. <i>ACS Omega</i> , 2018 , 3, 14538-14550	3.9	7
267	Metal Nanoparticles in Liquid Phase Catalysis 2018 , 497-519		
266	Synthesis, characterization, photophysical and electrochemical properties of a new nonplanar perylene diimide with electron donating substituent. <i>Optical Materials</i> , 2018 , 82, 30-38	3.3	4
265	Preparation and characterization of a new CdS/NiFe ₂ O ₄ /reduced graphene oxide photocatalyst and its use for degradation of methylene blue under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2018 , 44, 5953-5979	2.8	24
264	Nanoceria supported rhodium(0) nanoparticles as catalyst for hydrogen generation from methanolysis of ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 1012-1020	21.8	49
263	Nanoceria supported palladium(0) nanoparticles: Superb catalyst in dehydrogenation of formic acid at room temperature. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 384-392	21.8	83
262	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. <i>Applied Catalysis B: Environmental</i> , 2017 , 208, 104-115	21.8	112
261	Enhanced reactivity in a heterogeneous oxido-peroxido molybdenum(VI) complex of salicylidene 2-picoloyl hydrazone in catalytic epoxidation of olefins. <i>Transition Metal Chemistry</i> , 2017 , 42, 357-363	2.1	4
260	Hydrogen Generation from the Hydrolysis of Ammonia Borane Using Transition Metal Nanoparticles as Catalyst 2017 , 207-230		4
259	Ceria supported copper(0) nanoparticles as efficient and cost-effective catalyst for the dehydrogenation of dimethylamine borane. <i>Molecular Catalysis</i> , 2017 , 434, 57-68	3.3	9
258	Oxazine containing molybdenum(VI) dioxodiperoxo complex immobilized on SBA-15 as highly active and selective catalyst in the oxidation of alkenes to epoxides under solvent-free conditions. <i>Microporous and Mesoporous Materials</i> , 2017 , 251, 173-180	5.3	10
257	Nanoceria supported cobalt(0) nanoparticles: a magnetically separable and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane. <i>New Journal of Chemistry</i> , 2017 , 41, 6546-6552	3.6	37
256	Nanoparticle Nucleation Is Termolecular in Metal and Involves Hydrogen: Evidence for a Kinetically Effective Nucleus of Three {IrHPWNbO} in Ir(0) Nanoparticle Formation From [(1,5-COD)IrHPWNbO] Plus Dihydrogen. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5444-5457	16.4	35
255	Oleylamine-Stabilized Copper(0) Nanoparticles: An Efficient and Low-Cost Catalyst for the Dehydrogenation of Dimethylamine Borane. <i>ChemCatChem</i> , 2017 , 9, 2588-2598	5.2	10
254	Ruthenium(0) nanoparticles supported on nanohafnia: A highly active and long-lived catalyst in hydrolytic dehydrogenation of ammonia borane. <i>Molecular Catalysis</i> , 2017 , 430, 29-35	3.3	29
253	Nickel(0) nanoparticles supported on bare or coated cobalt ferrite as highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane. <i>Journal of Colloid and Interface Science</i> , 2017 , 508, 359-368	9.3	34
252	A Classic Azo-Dye Agglomeration System: Evidence For Slow, Continuous Nucleation, Autocatalytic Agglomerative Growth, Plus the Effects of Dust Removal by Microfiltration on the Kinetics. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7071-7078	2.8	6

251	Nanotitania-Supported Rhodium(0) Nanoparticles: Superb Catalyst in Dehydrogenation of Dimethylamine Borane. <i>ChemistrySelect</i> , 2017 , 2, 5751-5759	1.8	1
250	Silver Nanoparticles Synthesized by Microwave Heating: A Kinetic and Mechanistic Re-Analysis and Re-Interpretation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27643-27654	3.8	19
249	Dust Effects on Nucleation Kinetics and Nanoparticle Product Size Distributions: Illustrative Case Study of a Prototype Ir(0) Transition-Metal Nanoparticle Formation System. <i>Langmuir</i> , 2017 , 33, 6550-6562	4.2	18
248	Nanoalumina-supported rhodium(0) nanoparticles as catalyst in hydrogen generation from the methanolysis of ammonia borane. <i>Molecular Catalysis</i> , 2017 , 439, 50-59	3.3	31
247	Rhodium(0) nanoparticles supported on nanosilica: Highly active and long lived catalyst in hydrogen generation from the methanolysis of ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 716-726	21.8	58
246	Palladium(0) nanoparticles supported on polydopamine coated Fe ₃ O ₄ as magnetically isolable, highly active and reusable catalysts for hydrolytic dehydrogenation of ammonia borane. <i>RSC Advances</i> , 2016 , 6, 102035-102042	3.7	49
245	Ceria supported rhodium nanoparticles: Superb catalytic activity in hydrogen generation from the hydrolysis of ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 162-170	21.8	176
244	Ceria-supported ruthenium nanoparticles as highly active and long-lived catalysts in hydrogen generation from the hydrolysis of ammonia borane. <i>Dalton Transactions</i> , 2016 , 45, 10969-78	4.3	68
243	Synthesis, characterization, and catalytic activity of supported molybdenum Schiff base complex as a magnetically recoverable nanocatalyst in epoxidation reaction. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 668-677	1.6	15
242	Immobilization of a molybdenum complex on the surface of magnetic nanoparticles for the catalytic epoxidation of olefins. <i>New Journal of Chemistry</i> , 2016 , 40, 1580-1586	3.6	25
241	Highly active and long lived homogeneous catalyst for the dehydrogenation of dimethylamine borane starting with ruthenium(III) acetylacetonate and oleylamine precatalyst. <i>Journal of Molecular Catalysis A</i> , 2016 , 411, 9-18		8
240	Palladium(0) Nanoparticle Formation, Stabilization, and Mechanistic Studies: Pd(acac) ₃ as a Preferred Precursor, [Bu ₄ N] ⁺ [PO ₄] ³⁻ Stabilizer, plus the Stoichiometry, Kinetics, and Minimal, Four-Step Mechanism of the Palladium Nanoparticle Formation and Subsequent Agglomeration	4	23
239	Palladium(0) nanoparticles supported on ceria: Highly active and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11154-11162	6.7	91
238	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. <i>Journal of Molecular Catalysis A</i> , 2016 , 424, 254-260		21
237	Facile Synthesis of Three-Dimensional Pt-TiO ₂ Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia-Borane. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12257-61	16.4	113
236	Facile Synthesis of Three-Dimensional Pt-TiO ₂ Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia Borane. <i>Angewandte Chemie</i> , 2016 , 128, 12445-12449	3.6	32
235	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. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2255-2265	6.7	28
234	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. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10491-10501	6.7	47

233	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, $[\text{Ir}(1,5\text{-COD})(\text{H})]_4$, and the resulting improved, independently repeatable, reliable synthesis. <i>Inorganica Chimica Acta</i> , 2015 , 432, 250-257	2.7	5
232	Agglomerative Sintering of an Atomically Dispersed Ir1/Zeolite Y Catalyst: Compelling Evidence Against Ostwald Ripening but for Bimolecular and Autocatalytic Agglomeration Catalyst Sintering Steps. <i>ACS Catalysis</i> , 2015 , 5, 3514-3527	13.1	47
231	Unintuitive Inverse Dependence of the Apparent Turnover Frequency on Precatalyst Concentration: A Quantitative Explanation in the Case of Ziegler-Type Nanoparticle Catalysts Made from $[(1,5\text{-COD})\text{Ir}(\text{ED}2\text{C}8\text{H}15)]_2$ and AlEt_3 . <i>ACS Catalysis</i> , 2015 , 5, 3342-3353	13.1	21
230	PVP-stabilized nickel(0) nanoparticles as catalyst in hydrogen generation from the methanolysis of hydrazine borane or ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 573-582	21.8	91
229	Flame retardancy and mechanical properties of pet-based composites containing phosphorus and boron-based additives. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	18
228	A New Homogeneous Catalyst for the Dehydrogenation of Dimethylamine Borane Starting with Ruthenium(III) Acetylacetonate. <i>Materials</i> , 2015 , 8, 3155-3167	3.5	12
227	Dihydrogen Phosphate Stabilized Ruthenium(0) Nanoparticles: Efficient Nanocatalyst for The Hydrolysis of Ammonia-Borane at Room Temperature. <i>Materials</i> , 2015 , 8, 4226-4238	3.5	10
226	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. <i>Polyhedron</i> , 2015 , 89, 55-61	2.7	7
225	Immobilization of dioxomolybdenum(VI) complex bearing salicylidene 2-picoyl hydrazone on chloropropyl functionalized SBA-15: A highly active, selective and reusable catalyst in olefin epoxidation. <i>Applied Catalysis A: General</i> , 2014 , 475, 55-62	5.1	38
224	Triniobium, Wells-Dawson-type polyoxoanion, $[(n\text{-C}_4\text{H}_9)_4\text{N}]_9\text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}$: improvements in the synthesis, its reliability, the purity of the product, and the detailed synthetic procedure. <i>Inorganic Chemistry</i> , 2014 , 53, 2666-76	5.1	15
223	Ruthenium(0) nanoparticles supported on nanotitania as highly active and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9628-9637	6.7	87
222	Ruthenium(III) ion-exchanged zeolite Y as highly active and reusable catalyst in decomposition of nitrous oxide to sole nitrogen and oxygen. <i>Microporous and Mesoporous Materials</i> , 2014 , 196, 51-58	5.3	7
221	Palladium(0) nanoparticles supported on metal organic framework as highly active and reusable nanocatalyst in dehydrogenation of dimethylamine-borane. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 394-401	21.8	50
220	Palladium(0) nanoparticles supported on silica-coated cobalt ferrite: A highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 387-393	21.8	121
219	Ruthenium(0) nanoparticles supported on xonotlite nanowire: a long-lived catalyst for hydrolytic dehydrogenation of ammonia-borane. <i>Dalton Transactions</i> , 2014 , 43, 1797-805	4.3	57
218	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. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 534-541	21.8	94
217	Rhodium(0) nanoparticles supported on nanotitania as highly active catalyst in hydrogen generation from the hydrolysis of ammonia borane. <i>RSC Advances</i> , 2014 , 4, 13742-13748	3.7	39
216	Hydroxyapatite-nanosphere supported ruthenium(0) nanoparticle catalyst for hydrogen generation from ammonia-borane solution: kinetic studies for nanoparticle formation and hydrogen evolution. <i>RSC Advances</i> , 2014 , 4, 28947-28955	3.7	26

215	Ruthenium(0) nanoparticles supported on magnetic silica coated cobalt ferrite: Reusable catalyst in hydrogen generation from the hydrolysis of ammonia-borane. <i>Journal of Molecular Catalysis A</i> , 2014 , 394, 253-261		41
214	Epoxidation of olefins catalyzed by a molybdenum-Schiff base complex anchored in the pores of SBA-15. <i>Journal of Molecular Catalysis A</i> , 2014 , 395, 470-480		28
213	Iridium(0) nanoparticles dispersed in zeolite framework: A highly active and long-lived green nanocatalyst for the hydrogenation of neat aromatics at room temperature. <i>Applied Catalysis B: Environmental</i> , 2014 , 148-149, 466-472	21.8	39
212	Electrochemical Behavior of Hydrazine Borane in Methanol Solution. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1171-F1175	3.9	1
211	Transition Metal Nanoparticles as Catalyst in Hydrogen Generation from the Boron-Based Hydrogen Storage Materials 2013 , 165-189		5
210	Transition Metal Nanoparticles in Catalysis for the Hydrogen Generation from the Hydrolysis of Ammonia-Borane. <i>Topics in Catalysis</i> , 2013 , 56, 1171-1183	2.3	65
209	Exceptionally thermally stable, hydrocarbon soluble Ziegler-type Ir(0) _n nanoparticle catalysts made from [Ir(1,5-COD)(ED2C8H15)] ₂ plus AlEt ₃ : Tests of key hypotheses for their unusual stabilization. <i>Journal of Molecular Catalysis A</i> , 2013 , 378, 333-343		11
208	Surfactant modified zinc borate synthesis and its effect on the properties of PET. <i>Powder Technology</i> , 2013 , 244, 38-44	5.2	14
207	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. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 14693-14703	6.7	31
206	Oleylamine-stabilized ruthenium(0) nanoparticles catalyst in dehydrogenation of dimethylamine-borane. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10000-10011	6.7	22
205	One-pot synthesis of 1,2/3-triols from the allylic hydroperoxides catalyzed by zeolite-confined osmium(0) nanoclusters. <i>Journal of Molecular Catalysis A</i> , 2013 , 378, 142-147		5
204	Kinetics of hydrogen generation from hydrolysis of sodium borohydride on Pt/C catalyst in a flow reactor. <i>International Journal of Energy Research</i> , 2013 , 37, 443-448	4.5	34
203	Hydroxyapatite supported ruthenium(0) nanoparticles catalyst in hydrolytic dehydrogenation of ammonia borane: Insight to the nanoparticles formation and hydrogen evolution kinetics. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 187-195	21.8	78
202	Hydrogen generation from the dehydrogenation of ammonia borane in the presence of ruthenium(III) acetylacetonate forming a homogeneous catalyst. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 180-187	6.7	19
201	B-N polymer embedded iron(0) nanoparticles as highly active and long lived catalyst in the dehydrogenation of ammonia borane. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4954-61	1.3	7
200	Palladium nanoparticles supported on chemically derived graphene: An efficient and reusable catalyst for the dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8161-8169	6.7	121
199	Hydrogen generation from hydrolysis of ammonia-borane using Pd@VB@TiO ₂ and Co@Ni@Pd@TiO ₂ under stirred conditions. <i>Journal of Power Sources</i> , 2012 , 210, 184-190	8.9	25
198	Effect of silver encapsulation on the local structure of titanasilicate ETS-10. <i>Microporous and Mesoporous Materials</i> , 2012 , 159, 1-8	5.3	15

197	Novel homogeneous catalyst comprising ruthenium and trimethylphosphite for the hydrolysis of sodium borohydride. <i>Journal of Molecular Catalysis A</i> , 2012 , 355, 186-191		10
196	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. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3866-73	9.5	84
195	Size-controllable APTS stabilized ruthenium(0) nanoparticles catalyst for the dehydrogenation of dimethylamine-borane at room temperature. <i>Dalton Transactions</i> , 2012 , 41, 590-8	4.3	48
194	Dihydroxylation of olefins catalyzed by zeolite-confined osmium(0) nanoclusters: an efficient and reusable method for the preparation of 1,2-cis-diols. <i>Green Chemistry</i> , 2012 , 14, 1488	10	22
193	Hydrogen liberation from the hydrolytic dehydrogenation of dimethylamine-borane at room temperature by using a novel ruthenium nanocatalyst. <i>Dalton Transactions</i> , 2012 , 41, 4976-84	4.3	48
192	A facile one-step synthesis of polymer supported rhodium nanoparticles in organic medium and their catalytic performance in the dehydrogenation of ammonia-borane. <i>Chemical Communications</i> , 2012 , 48, 1180-2	5.8	44
191	Synthesis and characterization of [Ir(1,5-cyclooctadiene)(H)] ₄ : a tetrametallic Ir ₄ H ₄ -core, coordinatively unsaturated cluster. <i>Inorganic Chemistry</i> , 2012 , 51, 3186-93	5.1	16
190	CHAPTER 3:Preparation of Metal Nanoparticles Stabilized by the Framework of Porous Materials. <i>RSC Green Chemistry</i> , 2012 , 34-66	0.9	2
189	Hydrocarbon-Soluble, Isolable Ziegler-Type Ir(0) _n Nanoparticle Catalysts Made from [(1,5-COD)Ir(ED ₂ C ₈ H ₁₅)] ₂ and 2B Equivalents of AlEt ₃ : Their High Catalytic Activity, Long Lifetime, and AlEt ₃ -Dependent, Exceptional, 200 °C Thermal Stability. <i>ACS Catalysis</i> , 2012 , 2, 632-641	13.1	13
188	Ruthenium(0) nanoparticles supported on multiwalled carbon nanotube as highly active catalyst for hydrogen generation from ammonia-borane. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6302-10	9.5	158
187	Catalytic methanolysis of hydrazine borane: a new and efficient hydrogen generation system under mild conditions. <i>Dalton Transactions</i> , 2012 , 41, 4912-8	4.3	24
186	Hydroxyapatite-supported cobalt(0) nanoclusters as efficient and cost-effective catalyst for hydrogen generation from the hydrolysis of both sodium borohydride and ammonia-borane. <i>Catalysis Today</i> , 2012 , 183, 17-25	5.3	123
185	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. <i>Catalysis Today</i> , 2012 , 183, 10-16	5.3	61
184	Hydrogen generation from the hydrolysis of hydrazine-borane catalyzed by rhodium(0) nanoparticles supported on hydroxyapatite. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5143-5151	6.7	51
183	Industrial Ziegler-type hydrogenation catalysts made from Co(neodecanoate) ₂ or Ni(2-ethylhexanoate) ₂ and AlEt ₃ : evidence for nanoclusters and sub-nanocluster or larger Ziegler-nanocluster based catalysis. <i>Langmuir</i> , 2011 , 27, 6279-94	4	22
182	One-pot synthesis of colloidal robust rhodium(0) nanoparticles and their catalytic activity in the dehydrogenation of ammonia-borane for chemical hydrogen storage. <i>Dalton Transactions</i> , 2011 , 40, 3584-91	4.3	26
181	Cobalt-Bickelphosphorus supported on Pd-activated TiO ₂ (CoNiB/Pd-TiO ₂) as cost-effective and reusable catalyst for hydrogen generation from hydrolysis of alkaline sodium borohydride solution. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7016-7021	5.7	75
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