

Saim zkar

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304
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h-index

90
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ext. papers

12,641
ext. citations

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avg, IF

7.12
L-index

#	Paper	IF	Citations
304	Monodisperse nickel nanoparticles and their catalysis in hydrolytic dehydrogenation of ammonia borane. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1468-9	16.4	437
303	Nanocluster formation and stabilization fundamental studies: ranking commonly employed anionic stabilizers via the development, then application, of five comparative criteria. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5796-810	16.4	265
302	Metal nanoparticles in liquid phase catalysis; from recent advances to future goals. <i>Nanoscale</i> , 2011 , 3, 3462-81	7.7	239
301	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
300	Water-soluble poly(4-styrenesulfonic acid-co-maleic acid) stabilized ruthenium(0) and palladium(0) nanoclusters as highly active catalysts in hydrogen generation from the hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6304-6313	6.7	176
299	Water soluble laurate-stabilized ruthenium(0) nanoclusters catalyst for hydrogen generation from the hydrolysis of ammonia-borane: High activity and long lifetime. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7223-7230	6.7	173
298	Hydrogen Generation from the Hydrolysis of Ammonia-borane and Sodium Borohydride Using Water-soluble Polymer-stabilized Cobalt(0) Nanoclusters Catalyst. <i>Energy & Fuels</i> , 2009 , 23, 3517-3526	4.1	169
297	Hydrogen generation from hydrolysis of sodium borohydride using Ru(0) nanoclusters as catalyst. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 728-731	5.7	165
296	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
295	Zeolite framework stabilized rhodium(0) nanoclusters catalyst for the hydrolysis of ammonia-borane in air: Outstanding catalytic activity, reusability and lifetime. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 104-110	21.8	141
294	Zeolite-confined ruthenium(0) nanoclusters catalyst: record catalytic activity, reusability, and lifetime in hydrogen generation from the hydrolysis of sodium borohydride. <i>Langmuir</i> , 2009 , 25, 2667-78 ⁴		133
293	Additional Investigations of a New Kinetic Method To Follow Transition-Metal Nanocluster Formation, Including the Discovery of Heterolytic Hydrogen Activation in Nanocluster Nucleation Reactions. <i>Chemistry of Materials</i> , 2001 , 13, 312-324	9.6	132
292	Ruthenium(0) nanoclusters stabilized by a Nanozeolite framework: isolable, reusable, and green catalyst for the hydrogenation of neat aromatics under mild conditions with the unprecedented catalytic activity and lifetime. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6541-9	16.4	131
291	Water soluble laurate-stabilized rhodium(0) nanoclusters catalyst with unprecedented catalytic lifetime in the hydrolytic dehydrogenation of ammonia-borane. <i>Applied Catalysis A: General</i> , 2009 , 369, 53-59	5.1	130
290	Is it homogeneous or heterogeneous catalysis derived from [RhCp*Cl ₂]? In operando XAFS, kinetic, and crucial kinetic poisoning evidence for subnanometer Rh ₄ cluster-based benzene hydrogenation catalysis. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18889-902	16.4	126
289	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
288	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

287	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
286	Zeolite confined palladium(0) nanoclusters as effective and reusable catalyst for hydrogen generation from the hydrolysis of ammonia-borane. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1305-1312	6.7	120
285	Monodisperse nickel nanoparticles supported on SiO ₂ as an effective catalyst for the hydrolysis of ammonia-borane. <i>Nano Research</i> , 2010 , 3, 676-684	10	118
284	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
283	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
282	Water soluble nickel(0) and cobalt(0) nanoclusters stabilized by poly(4-styrenesulfonic acid-co-maleic acid): Highly active, durable and cost effective catalysts in hydrogen generation from the hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 1424-1432	6.7	108
281	Hydrogen generation from the hydrolysis of ammonia-borane using intrazeolite cobalt(0) nanoclusters catalyst. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3341-3346	6.7	108
280	Zeolite confined copper(0) nanoclusters as cost-effective and reusable catalyst in hydrogen generation from the hydrolysis of ammonia-borane. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 187-197	6.7	106
279	Dimethylammonium hexanoate stabilized rhodium(0) nanoclusters identified as true heterogeneous catalysts with the highest observed activity in the dehydrogenation of dimethylamine-borane. <i>Inorganic Chemistry</i> , 2009 , 48, 8955-64	5.1	104
278	In situ-generated PVP-stabilized palladium(0) nanocluster catalyst in hydrogen generation from the methanolysis of ammonia-borane. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10519-25	3.6	104
277	Ammonia borane as hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18592-18606	6.7	103
276	Hydrogen generation from the hydrolysis of sodium borohydride by using water dispersible, hydrogenphosphate-stabilized nickel(0) nanoclusters as catalyst. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1707-1715	6.7	98
275	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
274	Intrazeolite cobalt(0) nanoclusters as low-cost and reusable catalyst for hydrogen generation from the hydrolysis of sodium borohydride. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 21-29	21.8	93
273	Catalytic hydrolysis of hydrazine borane for chemical hydrogen storage: Highly efficient and fast hydrogen generation system at room temperature. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 4958-4966	6.7	93
272	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
271	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
270	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

269	Zeolite framework stabilized nickel(0) nanoparticles: Active and long-lived catalyst for hydrogen generation from the hydrolysis of ammonia-borane and sodium borohydride. <i>Catalysis Today</i> , 2011 , 170, 76-84	5.3	87
268	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
267	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
266	Zeolite confined rhodium(0) nanoclusters as highly active, reusable, and long-lived catalyst in the methanolysis of ammonia-borane. <i>Applied Catalysis B: Environmental</i> , 2010 , 93, 387-394	21.8	83
265	Water dispersible acetate stabilized ruthenium(0) nanoclusters as catalyst for hydrogen generation from the hydrolysis of sodium borohydride. <i>Journal of Molecular Catalysis A</i> , 2006 , 258, 95-103		80
264	Intrazeolite ruthenium(0) nanoclusters: a superb catalyst for the hydrogenation of benzene and the hydrolysis of sodium borohydride. <i>Langmuir</i> , 2008 , 24, 7065-7	4	79
263	Molecular insights for how preferred oxoanions bind to and stabilize transition-metal nanoclusters: a tridentate, C3 symmetry, lattice size-matching binding model. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 135-146	23.2	79
262	Intrazeolite metal carbonyl topotaxy. A comprehensive structural and spectroscopic study of intrazeolite Group VI metal hexacarbonyls and subcarbonyls. <i>Journal of the American Chemical Society</i> , 1990 , 112, 9575-9586	16.4	79
261	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
260	Aminopropyltriethoxysilane stabilized ruthenium(0) nanoclusters as an isolable and reusable heterogeneous catalyst for the dehydrogenation of dimethylamine-borane. <i>Chemical Communications</i> , 2010 , 46, 2938-40	5.8	76
259	Room temperature aerobic Suzuki cross-coupling reactions in DMF/water mixture using zeolite confined palladium(0) nanoclusters as efficient and recyclable catalyst. <i>Applied Catalysis A: General</i> , 2010 , 382, 339-344	5.1	76
258	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
257	Hydroxyapatite-supported palladium(0) nanoclusters as effective and reusable catalyst for hydrogen generation from the hydrolysis of ammonia-borane. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7019-7027	6.7	70
256	Thermal characterization of glycidyl azide polymer (GAP) and GAP-based binders for composite propellants. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 538-546	2.9	70
255	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
254	Iridium(0) nanocluster, acid-assisted catalysis of neat acetone hydrogenation at room temperature: exceptional activity, catalyst lifetime, and selectivity at complete conversion. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4800-8	16.4	68
253	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
252	Enhancement of catalytic activity by increasing surface area in heterogeneous catalysis. <i>Applied Surface Science</i> , 2009 , 256, 1272-1277	6.7	65

251	Transition-Metal Nanocluster Stabilization Fundamental Studies: Hydrogen Phosphate as a Simple, Effective, Readily Available, Robust, and Previously Unappreciated Stabilizer for Well-Formed, Isolable, and Redissolvable Ir(0) and Other Transition-Metal Nanoclusters. <i>Langmuir</i> , 2003 , 19, 6247-6260	4	65
250	Effect of fillers on thermal and mechanical properties of polyurethane elastomer. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 1057-1065	2.9	64
249	Oleylamine-Stabilized Palladium(0) Nanoclusters As Highly Active Heterogeneous Catalyst for the Dehydrogenation of Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10736-10743	3.8	63
248	Mechanical properties of HTPB-IPDI-based elastomers. <i>Journal of Applied Polymer Science</i> , 1997 , 64, 2347-2354	3.3	63
247	Hydrogen generation from the hydrolysis of ammonia borane using cobalt-nickel-phosphorus (CoNiP) catalyst supported on Pd-activated TiO ₂ by electroless deposition. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 254-261	6.7	62
246	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
245	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
244	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
243	In situ formed "weakly ligated/labile ligand" iridium(0) nanoparticles and aggregates as catalysts for the complete hydrogenation of neat benzene at room temperature and mild pressures. <i>Langmuir</i> , 2010 , 26, 12455-64	4	59
242	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
241	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
240	Synthesis and characterization of poly(N-vinyl-2-pyrrolidone)-stabilized water-soluble nickel(0) nanoclusters as catalyst for hydrogen generation from the hydrolysis of sodium borohydride. <i>Journal of Molecular Catalysis A</i> , 2008 , 295, 39-46		56
239	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
238	Polymer-immobilized palladium supported on TiO ₂ (Pd@TiO ₂) as highly active and reusable catalyst for hydrogen generation from the hydrolysis of unstirred ammonia borane solution. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 1448-1455	6.7	53
237	Ruthenium(III) acetylacetonate: A homogeneous catalyst in the hydrolysis of sodium borohydride. <i>Journal of Molecular Catalysis A</i> , 2008 , 286, 87-91		53
236	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
235	Nanocluster Formation and Stabilization Fundamental Studies. 2. Proton Sponge as an Effective H ⁺ Scavenger and Expansion of the Anion Stabilization Ability Series. <i>Langmuir</i> , 2002 , 18, 7653-7662	4	51
234	Photochemische addition konjugierter diene an tricarbonyl- η -1,3,5-cycloheptatrien-chrom(0). <i>Journal of Organometallic Chemistry</i> , 1978 , 160, 115-124	2.3	51

233	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
232	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
231	Silica embedded cobalt(0) nanoclusters: Efficient, stable and cost effective catalyst for hydrogen generation from the hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11528-11535	6.7	49
230	Kinetic study of the reaction between hydroxyl-terminated polybutadiene and isophorone diisocyanate in bulk by quantitative FTIR spectroscopy. <i>Journal of Applied Polymer Science</i> , 1997 , 66, 1979-1983	3.9	49
229	Kinetics of gypsum formation and growth during the dissolution of colemanite in sulfuric acid. <i>Journal of Crystal Growth</i> , 2001 , 231, 559-567	1.6	49
228	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
227	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
226	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
225	Photoinduced Reactions of Cr(CO) ₃ -Coordinated 1,3,5-Cycloheptatriene: [6 + 2] Cycloaddition with an Alkyne and Catalytic 1,6-Hydrogenation. <i>Chemische Berichte</i> , 1991 , 124, 2857-2861		48
224	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
223	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
222	Ruthenium(0) nanoclusters supported on hydroxyapatite: highly active, reusable and green catalyst in the hydrogenation of aromatics under mild conditions with an unprecedented catalytic lifetime. <i>Chemical Communications</i> , 2010 , 46, 4788-90	5.8	47
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220	Synthesis and characterizations of 3,3'-bis(diphenylphosphinoamine)-2,2'-bipyridine and 3,3'-bis(diphenylphosphinite)-2,2'-bipyridine and their chalcogenides. <i>Polyhedron</i> , 2007 , 26, 3373-3378	2.7	45
219	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
218	Smart zeolites: new forms of tungsten and molybdenum oxides. <i>Accounts of Chemical Research</i> , 1992 , 25, 553-560	24.3	44
217	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
216	New route to synthesis of PVP-stabilized palladium(0) nanoclusters and their enhanced catalytic activity in Heck and Suzuki cross-coupling reactions. <i>Applied Organometallic Chemistry</i> , 2009 , 23, 498-503	3.1	41

- 215 Friedell Crafts alkylation of ferrocene with Z-cyclooctene and cyclohexene. *Journal of Organometallic Chemistry*, **1999**, 587, 122-126 2.3 41
- 214 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 2.4 41
- 213 Novel neutral phosphinite bridged dinuclear ruthenium(II) arene complexes and their catalytic use in transfer hydrogenation of aromatic ketones: X-ray structure of a new Schiff base, N3,N3'-di-2-hydroxybenzylidene-[2,2']bipyridinyl-3,3'-diamine. *Journal of Molecular Catalysis A*, **2010**, 326, 75-81 40
- 212 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 6.7 39
- 211 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 3.7 39
- 210 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 21.8 39
- 209 Hydrogen generation from the methanolysis of ammonia borane catalyzed by in situ generated, polymer stabilized ruthenium(0) nanoclusters. *Catalysis Today*, **2011**, 170, 93-98 5.3 39
- 208 Gehinderte ligandenbewegungen in Bergangsmetallkomplexen. *Journal of Organometallic Chemistry*, **1982**, 229, 29-42 2.3 39
- 207 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 5.1 38
- 206 Photoreactions of Group 6 metal carbonyls with ethene: syntheses of trans-(η^2 -ethene)₂M(CO)₄ (M = chromium, molybdenum, tungsten. *Journal of the American Chemical Society*, **1987**, 109, 7536-7537 16.4 38
- 205 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 2.6 37
- 204 Palladium(0) nanoclusters stabilized by poly(4-styrenesulfonic acid-co-maleic acid) as an effective catalyst for Suzuki-Miyaura cross-coupling reactions in water. *Journal of Molecular Catalysis A*, **2011**, 337, 39-44 37
- 203 Synthesis and characterizations of N,N-bis(diphenylphosphino)ethylaniline derivatives and X-ray crystal structure of palladium (II), platinum (II) complexes. *Polyhedron*, **2008**, 27, 196-202 2.7 37
- 202 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 8.3 36
- 201 Oxidation of o-phenylenediamine to 2,3-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 3.1 36
- 200 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. *Journal of the American Chemical Society*, **2017**, 139, 5444-5457 16.4 35
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- 198 Intrazeolite Topotaxy. *Advanced Materials*, **1992**, 4, 11-22 24 35

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196	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
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194	Osmium(0) nanoclusters stabilized by zeolite framework; highly active catalyst in the aerobic oxidation of alcohols under mild conditions. <i>Dalton Transactions</i> , 2010 , 39, 7521-7	4.3	32
193	Synthesis and characterization of new bis(diphenylphosphino)aniline ligands and their complexes: X-ray crystal structure of palladium(II) and platinum(II) complexes, and application of palladium(II) complexes as pre-catalysts in Heck and Suzuki cross-coupling reactions. <i>Polyhedron</i> , 2009 , 28, 2313-2320	2.7	32
192	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
191	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
190	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
189	Gehinderte Ligandenbewegungen in Übergangsmetall-komplexen. <i>Journal of Organometallic Chemistry</i> , 1978 , 152, C13-C18	2.3	31
188	Aminophosphine-palladium(II) complexes: Synthesis, structure and applications in Suzuki and Heck cross-coupling reactions. <i>Inorganica Chimica Acta</i> , 2011 , 378, 10-18	2.7	30
187	The preparation and characterization of gold(0) nanoclusters stabilized by zeolite framework: Highly active, selective and reusable catalyst in aerobic oxidation of benzyl alcohol. <i>Materials Chemistry and Physics</i> , 2010 , 121, 359-363	4.4	30
186	Guest-host interactions in sodium zeolite Y: structural and dynamical ²³ Na double-rotation NMR study of water, trimethylphosphine, molybdenum hexacarbonyl, and Mo(CO) ₄ (PMe ₃) ₂ adsorption in Na56Y. <i>Journal of the American Chemical Society</i> , 1993 , 115, 563-568	16.4	30
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