Umit Bilge Demirci

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.

 147
 5,598
 40
 69

 papers
 citations
 h-index
 g-index

 165
 6,269
 6.8
 6.54

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
147	Synthesis of n-dodecylamine borane C12H25NH2BH3, its stability against hydrolysis, and its characterization in THF. <i>Journal of Molecular Structure</i> , 2022 , 1248, 131484	3.4	2
146	Fabrication and characterization of copper nanoparticles anchored on sulfonated reduced graphene oxide as effective catalyst for the reduction of Thioflavine-T cationic dye in aqueous medium. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125212	4.4	2
145	Inorganic chemistry laboratory experiment on an energetic nickel (II) coordination compound, aimed at third-year undergraduate students. <i>Chemistry Teacher International</i> , 2021 , 3, 91-97	1	
144	A Series of Primary Alkylamine Borane Adducts CxH2x+1NH2BH3: Synthesis and Properties. <i>ChemistrySelect</i> , 2021 , 6, 9853-9860	1.8	3
143	Destabilization of Boron-Based Compounds for Hydrogen Storage in the Solid-State: Recent Advances. <i>Energies</i> , 2021 , 14, 7003	3.1	2
142	Anomalous Volume Changes in the Siliceous Zeolite Theta-1 TON due to Hydrogen Insertion under High-Pressure, High-Temperature Conditions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5059-5063	6.4	1
141	Nanosized ammonia borane for solid-state hydrogen storage: Outcomes, limitations, challenges and opportunities. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7351-7370	6.7	5
140	Magnesium hydrazinidoborane: Synthesis, characterization and features for solid-state hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 33164-33175	6.7	1
139	Mechanistic insights into the thermal decomposition of ammonia borane, a material studied for chemical hydrogen storage. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 1900-1930	6.8	8
138	Amidoboranes and hydrazinidoboranes: State of the art, potential for hydrogen storage, and other prospects. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 30731-30755	6.7	9
137	Cesium hydrazinidoborane, the last of the alkali hydrazinidoboranes, studied as potential hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16634-16643	6.7	3
136	Ammonia Borane: An Extensively Studied, Though Not Yet Implemented, Hydrogen Carrier. <i>Energies</i> , 2020 , 13, 3071	3.1	18
135	Diammonium tetraborate dihydrate as hydrolytic by-product of ammonia borane in aqueous alkaline conditions. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9927-9935	6.7	5
134	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. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118975	21.8	12
133	Calcium hydrazinidoborane: Synthesis, characterization, and promises for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2022-2033	6.7	4
132	Closing the hydrogen cycle with the couple sodium borohydride-methanol, via the formation of sodium tetramethoxyborate and sodium metaborate. <i>International Journal of Energy Research</i> , 2020 , 44, 11405-11416	4.5	6
131	Rubidium hydrazinidoborane: Synthesis, characterization and hydrogen release properties. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28252-28261	6.7	5

(2018-2019)

130	How to Design Hydrogen Storage Materials? Fundamentals, Synthesis, and Storage Tanks. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900043	5.9	48
129	Hydrogen generation from a sodium borohydridelickel core@shell structure under hydrolytic conditions. <i>Nanoscale Advances</i> , 2019 , 1, 2707-2717	5.1	19
128	Ammonia borane and hydrazine bis(borane) dehydrogenation mediated by an unsymmetrical (PNN) ruthenium pincer hydride: metalligand cooperation for hydrogen production. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2583-2596	5.8	9
127	Alkaline aqueous solution of sodium decahydro-closo-decaborate Na2B10H10 as liquid anodic fuel. <i>Renewable Energy</i> , 2019 , 143, 551-557	8.1	1
126	Ammonia Borane Nanospheres for Hydrogen Storage. ACS Applied Nano Materials, 2019 , 2, 1129-1138	5.6	20
125	Mechanistic Insights into Dehydrogenation of Partially Deuterated Ammonia Borane NHBD Being Heating to 200 °C. <i>Inorganic Chemistry</i> , 2019 , 58, 489-494	5.1	17
124	Nickel-based catalysts for hydrogen evolution by hydrolysis of sodium borohydride: from structured nickel hydrazine nitrate complexes to reduced counterparts. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14207-14216	6.7	14
123	Discrepancy in the thermal decomposition/dehydrogenation of ammonia borane screened by thermogravimetric analysis. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14201-14206	6.7	9
122	Ubiquitous Borane Fuel Electrooxidation on Pd/C and Pt/C Electrocatalysts: Toward Promising Direct Hydrazine B orane Fuel Cells. <i>ACS Catalysis</i> , 2018 , 8, 3150-3163	13.1	15
121	About the Technological Readiness of the H2 Generation by Hydrolysis of B(图)日 Compounds. <i>Energy Technology</i> , 2018 , 6, 470-486	3.5	31
120	Nanosizing Ammonia Borane with Nickel: A Path toward the Direct Hydrogen Release and Uptake of B?N?H Systems. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700122	5.9	14
119	Unraveling the mechanical behaviour of hydrazine borane (NH-NH-BH). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2845-2850	3.6	2
118	Hydrogen release from aqueous hydrazine bisborane. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 1261-1270	6.7	5
117	Sodium borohydride and propylene glycol, an effective combination for the generation of 2.3 wt% of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7237-7244	6.7	8
116	Aqueous hydrazine borane N2H4BH3 and nickel-based catalyst: An effective couple for the release of hydrogen in near-ambient conditions. <i>Journal of the Energy Institute</i> , 2018 , 91, 845-855	5.7	8
115	The highly stable aqueous solution of sodium dodecahydro-closo-dodecaborate Na2B12H12 as a potential liquid anodic fuel. <i>Applied Catalysis B: Environmental</i> , 2018 , 222, 1-8	21.8	13
114	Robust 3D Boron Nitride Nanoscaffolds for Remarkable Hydrogen Storage Capacity from Ammonia Borane. <i>Energy Technology</i> , 2018 , 6, 570-577	3.5	16
113	Polymer-Derived Ceramics with engineered mesoporosity: From design to application in catalysis. Surface and Coatings Technology, 2018, 350, 569-586	4.4	34

112	Novel Precursor-Derived Meso-/Macroporous TiO//SiOC Nanocomposites with Highly Stable Anatase Nanophase Providing Visible Light Photocatalytic Activity and Superior Adsorption of Organic Dyes. <i>Materials</i> , 2018 , 11,	3.5	13
111	Plasmon enhanced visible light photocatalytic activity in polymer-derived TiN/Si-O-C-N nanocomposites. <i>Materials and Design</i> , 2018 , 157, 87-96	8.1	10
110	Chemical vapor deposition growth of boron-carbon-nitrogen layers from methylamine borane thermolysis products. <i>Nanotechnology</i> , 2018 , 29, 025603	3.4	17
109	Assessing the Potential of Sodium 1-Oxadodecaborate NaBHO for Energy Storage. <i>ACS Omega</i> , 2018 , 3, 12878-12885	3.9	1
108	Sodium borohydride for the near-future energy: a "rough diamond" for Turkey. <i>Turkish Journal of Chemistry</i> , 2018 , 42,	1	13
107	Boron Nitride for Hydrogen Storage. <i>ChemPlusChem</i> , 2018 , 83, 893-903	2.8	25
106	Nanosizing ammonia borane with nickel [An all-solid and all-in-one approach for H2 generation by hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14498-14506	6.7	9
105	Ammonia borane, a material with exceptional properties for chemical hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9978-10013	6.7	164
104	11B MAS NMR Study of the Thermolytic Dehydrocoupling of Two Ammonia Boranes upon the Release of One Equivalent of H2 at Isothermal Conditions. <i>ChemistrySelect</i> , 2017 , 2, 9396-9401	1.8	10
103	Impact of H.I. Schlesinger's discoveries upon the course of modern chemistry on B【N】H hydrogen carriers. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21048-21062	6.7	17
102	Volcano Plot for Bimetallic Catalysts in Hydrogen Generation by Hydrolysis of Sodium Borohydride. Journal of Chemical Education, 2017 , 94, 1163-1166	2.4	7
101	Lithium Hydrazinidoborane Ammoniate LiNHBHID.25NHIa Derivative of Hydrazine Borane. <i>Materials</i> , 2017 , 10,	3.5	2
100	Reaction intermediate/product-induced segregation in cobaltdopper as the catalyst for hydrogen generation from the hydrolysis of sodium borohydride. <i>RSC Advances</i> , 2016 , 6, 102498-102503	3.7	10
99	In situ thermodiffraction to monitor synthesis and thermolysis of hydrazine borane-based materials. <i>Journal of Alloys and Compounds</i> , 2016 , 659, 210-216	5.7	7
98	Silicon carbide-based membranes with high soot particle filtration efficiency, durability and catalytic activity for CO/HC oxidation and soot combustion. <i>Journal of Membrane Science</i> , 2016 , 501, 79-92	9.6	40
97	Mechanistic insights of metal acetylacetonate-aided dehydrocoupling of liquid-state ammonia borane NH3BH3. <i>Advances in Energy Research</i> , 2016 , 4, 177-187		6
96	In situ Synchrotron X-ray Thermodiffraction of Boranes. <i>Crystals</i> , 2016 , 6, 16	2.3	7
95	Ammonia borane H3NBH3 for solid-state chemical hydrogen storage: Different samples with different thermal behaviors. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 15462-15470	6.7	28

(2014-2016)

94	By-Product Carrying Humidified Hydrogen: An Underestimated Issue in the Hydrolysis of Sodium Borohydride. <i>ChemSusChem</i> , 2016 , 9, 1777-80	8.3	11	
93	Effects of Pd Nanoparticle Size and Solution Reducer Strength on Pd/C Electrocatalyst Stability in Alkaline Electrolyte. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F781-F787	3.9	44	
92	Copper-cobalt foams as active and stable catalysts for hydrogen release by hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8438-8448	6.7	36	
91	Screening and scale-up of cerium oxide-based binary/ternary systems as oxidation catalysts. <i>RSC Advances</i> , 2016 , 6, 27426-27433	3.7	1	
90	Micro-/Mesoporous Platinum-SiCN Nanocomposite Catalysts (Pt@SiCN): From Design to Catalytic Applications. <i>Chemistry - A European Journal</i> , 2016 , 22, 15508-15512	4.8	36	
89	Organosilicon polymer-derived mesoporous 3D silicon carbide, carbonitride and nitride structures as platinum supports for hydrogen generation by hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 15477-15488	6.7	39	
88	Monodisperse platinum nanoparticles supported on highly ordered mesoporous silicon nitride nanoblocks: superior catalytic activity for hydrogen generation from sodium borohydride. <i>RSC Advances</i> , 2015 , 5, 58943-58951	3.7	31	
87	A preliminary study of sodium octahydrotriborate NaB3H8 as potential anodic fuel of direct liquid fuel cell. <i>Journal of Power Sources</i> , 2015 , 286, 10-17	8.9	17	
86	Key study on the potential of hydrazine bisborane for solid- and liquid-state chemical hydrogen storage. <i>Inorganic Chemistry</i> , 2015 , 54, 4574-83	5.1	14	
85	Pure hydrogen-generating dopedßodium hydrazinidoborane. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7475-7482	6.7	10	
84	Hydrazine Borane and Hydrazinidoboranes as Chemical Hydrogen Storage Materials. <i>Energies</i> , 2015 , 8, 3118-3141	3.1	47	
83	Formation mechanism of polyaniline self-assembled needles and urchin-like structures assisted by magnesium oxide. <i>Polymer International</i> , 2015 , 64, 505-512	3.3	3	
82	Thermogravimetric analysis-based screening of metal (II) chlorides as dopants for the destabilization of solid-state hydrazine borane. <i>Turkish Journal of Chemistry</i> , 2015 , 39, 984-997	1	2	
81	PdMnO2Be2O3/C as electrocatalyst for the formic acid electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6920-6926	6.7	21	
80	Metal hydridellydrazine borane: Towards hydrazinidoboranes or composites as hydrogen carriers. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14875-14884	6.7	12	
79	The hydrogen cycle with the hydrolysis of sodium borohydride: A statistical approach for highlighting the scientific/technical issues to prioritize in the field. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2673-2691	6.7	56	
78	Cyclic Dehydrogenation(Re)Hydrogenation with Hydrogen-Storage Materials: An Overview. <i>Energy Technology</i> , 2015 , 3, 100-117	3.5	22	
77	Lithium Hydrazinidoborane: A Polymorphic Material with Potential for Chemical Hydrogen Storage. <i>Chemistry of Materials</i> , 2014 , 26, 3249-3255	9.6	26	

76	Nickel- and platinum-containing core@shell catalysts for hydrogen generation of aqueous hydrazine borane. <i>Journal of Power Sources</i> , 2014 , 260, 77-81	8.9	42
75	Controlled Synthesis of Ultrafine Surfactant-Free NiPt Nanocatalysts toward Efficient and Complete Hydrogen Generation from Hydrazine Borane at Room Temperature. <i>ACS Catalysis</i> , 2014 , 4, 4261-4268	13.1	69
74	Cobalt-based catalysts for the hydrolysis of NaBH4 and NH3BH3. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6872-85	3.6	106
73	Bimetallic nickel-based nanocatalysts for hydrogen generation from aqueous hydrazine borane: Investigation of iron, cobalt and palladium as the second metal. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16919-16926	6.7	26
72	Reaction mechanisms of the hydrolysis of sodium borohydride: A discussion focusing on cobalt-based catalysts. <i>Comptes Rendus Chimie</i> , 2014 , 17, 707-716	2.7	43
71	Hydrazine borane-induced destabilization of ammonia borane, and vice versa. <i>Journal of Hazardous Materials</i> , 2014 , 278, 158-62	12.8	9
70	Nanostructured Boron Nitride: From Molecular Design to Hydrogen Storage Application. <i>Inorganics</i> , 2014 , 2, 396-409	2.9	18
69	Hollow core@mesoporous shell boron nitride nanopolyhedron-confined ammonia borane: a pure BNH composite for chemical hydrogen storage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7717	13	40
68	Borohydride-induced destabilization of hydrazine borane. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9321-9329	6.7	8
67	Borates in hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 7888-7895	56.7	37
66	Overview of the relative greenness of the main hydrogen production processes. <i>Journal of Cleaner Production</i> , 2013 , 52, 1-10	10.3	41
65	Preparation, Characterization, and Surface Modification of Periodic Mesoporous SiliconAluminumfarbonNitrogen Frameworks. <i>Chemistry of Materials</i> , 2013 , 25, 3957-3970	9.6	34
64	Instability of the CuCl2NH3BH3 mixture followed by TGA and DSC. <i>Thermochimica Acta</i> , 2013 , 567, 100-	1206	7
63	Boron-based hydrides for chemical hydrogen storage. <i>International Journal of Energy Research</i> , 2013 , 37, 825-842	4.5	115
62	Nanowires with controlled porosity for hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2133-2138	13	24
61	Sodium hydrazinidoborane: a chemical hydrogen-storage material. <i>ChemSusChem</i> , 2013 , 6, 667-73	8.3	34
60	A bottom-up approach to prepare cobalt-based bimetallic supported catalysts for hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5627-5637	6.7	23
59	Supported nickel catalysts for the decomposition of hydrazine borane N2H4BH3. <i>Advances in Energy Research</i> , 2013 , 1, 1-12		2

58	Polyanilinelitania solid electrolyte for new generation photovoltaic single-layer devices. <i>Materials Chemistry and Physics</i> , 2012 , 133, 1040-1049	4.4	18
57	Nickel-based bimetallic nanocatalysts in high-extent dehydrogenation of hydrazine borane. International Journal of Hydrogen Energy, 2012, 37, 9722-9729	6.7	48
56	Transition metal-catalyzed dehydrogenation of hydrazine borane N2H4BH3 via the hydrolysis of BH3 and the decomposition of N2H4. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10758-10767	6.7	37
55	The synergistic effect of Rh-Ni catalysts on the highly-efficient dehydrogenation of aqueous hydrazine borane for chemical hydrogen storage. <i>Chemical Communications</i> , 2012 , 48, 11945-7	5.8	58
54	Room-temperature hydrogen release from activated carbon-confined ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13437-13445	6.7	53
53	Gaining insight into the catalytic dehydrogenation of hydrazine borane in water. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15983-15991	6.7	14
52	Hydrazine borane: synthesis, characterization, and application prospects in chemical hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 1768-77	3.6	108
51	Ammonia borane thermolytic decomposition in the presence of metal (II) chlorides. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 6749-6755	6.7	26
50	Chemical hydrogen storage: Thaterially ravimetric capacity versus Bystemly ravimetric capacity. <i>Energy and Environmental Science</i> , 2011 , 4, 3334	35.4	99
49	Ammonia borane decomposition in the presence of cobalt halides. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12955-12964	6.7	31
48	Anchored cobalt film as stable supported catalyst for hydrolysis of sodium borohydride for chemical hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14527-14533	6.7	32
47	Deactivation and reactivation of cobalt in hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13669-13675	6.7	70
46	A simple preparation method of sodium amidoborane, highly efficient derivative of ammonia borane dehydrogenating at low temperature. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7423-	7430	18
45	Hydrolysis of ammonia borane as a hydrogen source: fundamental issues and potential solutions towards implementation. <i>ChemSusChem</i> , 2011 , 4, 1731-9	8.3	143
44	LangmuirHinshelwood kinetic model to capture the cobalt nanoparticles-catalyzed hydrolysis of sodium borohydride over a wide temperature range. <i>Catalysis Today</i> , 2011 , 170, 13-19	5.3	49
43	Facile synthesis by polyol method of a ruthenium catalyst supported on EAl2O3 for hydrolytic dehydrogenation of ammonia borane. <i>Catalysis Today</i> , 2011 , 170, 85-92	5.3	81
42	Ex situ characterization of N2H4-, NaBH4- and NH3BH3-reduced cobalt catalysts used in NaBH4 hydrolysis. <i>Catalysis Today</i> , 2011 , 170, 3-12	5.3	38
41	High-yield synthesis of hollow boron nitride nano-polyhedrons. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8694		37

40	Enhanced hydrogen release by catalyzed hydrolysis of sodium borohydride-ammonia borane mixtures: a solution-state 11B NMR study. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3809-18	3.6	44
39	High-extent dehydrogenation of hydrazine borane N2H4BH3 by hydrolysis of BH3 and decomposition of N2H4. <i>Energy and Environmental Science</i> , 2011 , 4, 3355	35.4	112
38	Spontaneous hydrolysis of sodium borohydride in harsh conditions. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 224-233	6.7	72
37	Bimetallic RuCo and RuCu catalysts supported on FAl2O3. A comparative study of their activity in hydrolysis of ammonia-borane. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7051-7065	6.7	127
36	Hydrogen release by thermolysis of ammonia borane NH3BH3 and then hydrolysis of its by-product [BNHx]. <i>Journal of Power Sources</i> , 2011 , 196, 279-286	8.9	68
35	Metal Oxides (such as Al2O3 and TiO2) as Catalyst Supports for Hydrogen Release by Hydrolysis of Sodium Borohydride NaBH4. <i>Advances in Science and Technology</i> , 2010 , 65, 209-214	0.1	
34	Cobalt in NaBH4 hydrolysis. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14651-65	3.6	172
33	Hydrogen release through catalyzed methanolysis of solid sodium borohydride. <i>Energy and Environmental Science</i> , 2010 , 3, 1796	35.4	71
32	Cobalt, a reactive metal in releasing hydrogen from sodium borohydride by hydrolysis: A short review and a research perspective. <i>Science China Chemistry</i> , 2010 , 53, 1870-1879	7.9	41
31	Sodium Borohydride Hydrolysis as Hydrogen Generator: Issues, State of the Art and Applicability Upstream from a Fuel Cell. <i>Fuel Cells</i> , 2010 , 10, 335-350	2.9	203
30	Hydrolysis of solid ammonia borane. <i>Journal of Power Sources</i> , 2010 , 195, 4030-4035	8.9	56
29	Co-Al2O3-Cu as shaped catalyst in NaBH4 hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 6583-6591	6.7	32
28	Metal chloride-doped ammonia borane thermolysis: Positive effect on induction period as well as hydrogen and borazine release. <i>Thermochimica Acta</i> , 2010 , 509, 81-86	2.9	32
27	Cobalt-supported alumina as catalytic film prepared by electrophoretic deposition for hydrogen release applications. <i>Applied Surface Science</i> , 2010 , 256, 7684-7691	6.7	22
26	Ten-year efforts and a no-go recommendation for sodium borohydride for on-board automotive hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2638-2645	6.7	181
25	Cobalt (II) salts, performing materials for generating hydrogen from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2631-2637	6.7	62
24	Highly efficient acid-treated cobalt catalyst for hydrogen generation from NaBH4 hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4780-4787	6.7	42
23	Fluorinated cobalt for catalyzing hydrogen generation from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 5417-5421	6.7	12

(2007-2009)

22	Acetic acid, a relatively green single-use catalyst for hydrogen generation from sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7231-7238	6.7	60
21	More reactive cobalt chloride in the hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9444-9449	6.7	33
20	Aluminum chloride for accelerating hydrogen generation from sodium borohydride. <i>Journal of Power Sources</i> , 2009 , 192, 310-315	8.9	40
19	Sodium tetrahydroborate as energy/hydrogen carrier, its history. <i>Comptes Rendus Chimie</i> , 2009 , 12, 943	3- <u>25</u> 0	39
18	How green are the chemicals used as liquid fuels in direct liquid-feed fuel cells?. <i>Environment International</i> , 2009 , 35, 626-31	12.9	31
17	Sodium borohydride versus ammonia borane, in hydrogen storage and direct fuel cell applications. <i>Energy and Environmental Science</i> , 2009 , 2, 627	35.4	302
16	Promoted sulphated-zirconia catalysed hydrolysis of sodium tetrahydroborate. <i>Catalysis Communications</i> , 2008 , 9, 1167-1172	3.2	40
15	Ru-based bimetallic alloys for hydrogen generation by hydrolysis of sodium tetrahydroborate. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 107-111	5.7	71
14	Pt Catalysed Hydrogen Generation by Hydrolysis of Sodium Tetrahydroborate. <i>International Journal of Green Energy</i> , 2008 , 5, 148-156	3	21
13	Kinetics of Ru-promoted sulphated zirconia catalysed hydrogen generation by hydrolysis of sodium tetrahydroborate. <i>Journal of Molecular Catalysis A</i> , 2008 , 279, 57-62		76
12	Commentary about the number of electrons, really involved in the direct oxidation of borohydride catalysed by Ag and Ag-alloys, determined by Gyenge and co-authors. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2123-2124	6.7	1
11	Comments on Electrocatalysts for the anodic oxidation of borohydrides by B.H. Liu, Z.P. Li, S. Suda [Electrochim. Acta 49 (2004) 3097]. <i>Electrochimica Acta</i> , 2007 , 53, 737-739	6.7	4
10	Kinetic study of n-heptane conversion on palladium or iridium supported on sulphated zirconia. <i>Journal of Molecular Catalysis A</i> , 2007 , 271, 216-220		8
9	Direct liquid-feed fuel cells: Thermodynamic and environmental concerns. <i>Journal of Power Sources</i> , 2007 , 169, 239-246	8.9	279
8	Theoretical means for searching bimetallic alloys as anode electrocatalysts for direct liquid-feed fuel cells. <i>Journal of Power Sources</i> , 2007 , 173, 11-18	8.9	227
7	Direct borohydride fuel cell: Main issues met by the membranellectrodes-assembly and potential solutions. <i>Journal of Power Sources</i> , 2007 , 172, 676-687	8.9	111
6	Isomerization of 3-methyl(3-13C)pentane over platinum supported sulphated zirconias: reaction mechanisms. <i>Catalysis Letters</i> , 2007 , 114, 41-48	2.8	1
5	Comments on the paper Electrooxidation of borohydride on platinum and gold electrodes: Implications for direct borohydride fuel celliby E. Gyenge, Electrochim. Acta 49 (2004) 965: Thiourea, a poison for the anode metallic electrocatalyst of the direct borohydride fuel cell?.	6.7	14

4	A skeletal rearrangement study of a carbon-13 labelled 3-methylpentane on doped sulphated zirconia catalysts. <i>Journal of Molecular Catalysis A</i> , 2006 , 258, 46-58		3
3	Kinetic study of n-heptane conversion on sulfated zirconia-supported platinum catalyst: the metalproton adduct is the active site. <i>Journal of Molecular Catalysis A</i> , 2002 , 188, 233-243		32
2	From Bifunctional Site to Metal P roton Adduct Site in Alkane Reforming Reactions on Sulphated-Zirconia-Supported Pt or Pd or Ir Catalysts. <i>Catalysis Letters</i> , 2001 , 76, 45-51	2.8	25
1	The porous composite BN@SHS made of boron nitride, silica hollow spheres and Si DB interface. Journal of Porous Materials,1	2.4	1