

Andreas ZÃ¼ttel

List of Publications by Year in descending order

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157
papers

19,931
citations

41258

49
h-index

10424

139
g-index

171
all docs

171
docs citations

171
times ranked

14328
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-storage materials for mobile applications. <i>Nature</i> , 2001, 414, 353-358.	13.7	7,383
2	Complex Hydrides for Hydrogen Storage. <i>Chemical Reviews</i> , 2007, 107, 4111-4132.	23.0	1,963
3	Materials for hydrogen storage. <i>Materials Today</i> , 2003, 6, 24-33.	8.3	1,530
4	Hydrogen storage methods. <i>Die Naturwissenschaften</i> , 2004, 91, 157-172.	0.6	803
5	Application of hydrides in hydrogen storage and compression: Achievements, outlook and perspectives. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7780-7808.	3.8	486
6	Correlation between thermodynamical stabilities of metal borohydrides and cation electronegativities: First-principles calculations and experiments. <i>Physical Review B</i> , 2006, 74, .	1.1	465
7	Hydrogen: the future energy carrier. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 3329-3342.	1.6	447
8	Recent Progress in Metal Borohydrides for Hydrogen Storage. <i>Energies</i> , 2011, 4, 185-214.	1.6	412
9	Stability and Reversibility of LiBH_4 . <i>Journal of Physical Chemistry B</i> , 2008, 112, 906-910.	1.2	324
10	Boosting CO Production in Electrocatalytic CO_2 Reduction on Highly Porous Zn Catalysts. <i>ACS Catalysis</i> , 2019, 9, 3783-3791.	5.5	247
11	Experimental studies on intermediate compound of LiBH_4 . <i>Applied Physics Letters</i> , 2006, 89, 021920.	1.5	220
12	Selective and Stable Electroreduction of CO_2 to CO at the Copper/Indium Interface. <i>ACS Catalysis</i> , 2018, 8, 6571-6581.	5.5	175
13	Stability and Decomposition of NaBH_4 . <i>Journal of Physical Chemistry C</i> , 2010, 114, 7173-7177.	1.5	174
14	The influence of cobalt on the electrochemical cycling stability of LaNi_5 -based hydride forming alloys. <i>Journal of Alloys and Compounds</i> , 1996, 241, 160-166.	2.8	169
15	Thermodynamical stability of calcium borohydride $\text{Ca}(\text{BH}_4)_2$. <i>Physical Review B</i> , 2006, 74, .	1.1	169
16	Single-layer graphene membranes by crack-free transfer for gas mixture separation. <i>Nature Communications</i> , 2018, 9, 2632.	5.8	160
17	Mechanically milled Mg composites for hydrogen storage the transition to a steady state composition. <i>Journal of Alloys and Compounds</i> , 1996, 240, 206-213.	2.8	135
18	3D hierarchical porous indium catalyst for highly efficient electroreduction of CO_2 . <i>Journal of Materials Chemistry A</i> , 2019, 7, 4505-4515.	5.2	134

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37	Decoration of graphene with nickel nanoparticles: study of the interaction with hydrogen. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1039-1046.	5.2	67
38	Effects of pretreatment on the activation behavior of Zr(V _{0.25} Ni _{0.75}) ₂ metal hydride electrodes in alkaline solution. <i>Journal of Alloys and Compounds</i> , 1994, 209, 99-105.	2.8	64
39	A multifaceted approach to hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16955.	1.3	64
40	Hydrogen in Nanostructured, Carbon-Related, and Metallic Materials. <i>MRS Bulletin</i> , 2002, 27, 705-711.	1.7	58
41	Surface changes on AlH ₃ during the hydrogen desorption. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	58
42	Reversible hydrogen storage in Mg(BH ₄) ₂ /carbon nanocomposites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11177.	5.2	57
43	Renewable energy storage via CO ₂ and H ₂ conversion to methane and methanol: Assessment for small scale applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 497-506.	8.2	56
44	In Situ Control of the Adsorption Species in CO ₂ Hydrogenation: Determination of Intermediates and Byproducts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20888-20893.	1.5	55
45	Self-supported copper-based gas diffusion electrodes for CO ₂ electrochemical reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26285-26292.	5.2	55
46	Electrochemical and surface properties of Zr(V _x Ni _{1-x}) ₂ alloys as hydrogen-absorbing electrodes in alkaline electrolyte. <i>Journal of Alloys and Compounds</i> , 1994, 203, 235-241.	2.8	54
47	Three-dimensional pore structure and ion conductivity of porous ceramic diaphragms. <i>AIChE Journal</i> , 2013, 59, 1446-1457.	1.8	52
48	Hydrogen Dynamics in Nanoconfined Lithiumborohydride. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3789-3798.	1.5	51
49	Composite membranes for alkaline electrolysis based on polysulfone and mineral fillers. <i>Journal of Power Sources</i> , 2015, 291, 163-172.	4.0	50
50	The Origin of the Catalytic Activity of a Metal Hydride in CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6028-6032.	7.2	50
51	Catalytic effect of titanium nitride nanopowder on hydrogen desorption properties of NaAlH ₄ and its stability in NaAlH ₄ . <i>Journal of Power Sources</i> , 2009, 192, 582-587.	4.0	49
52	Electrochemical characterisation of air electrodes based on La _{0.6} Sr _{0.4} CoO ₃ and carbon nanotubes. <i>Journal of Power Sources</i> , 2008, 183, 590-594.	4.0	48
53	Reversible hydrogen absorption in sodium intercalated fullerenes. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14307-14314.	3.8	47
54	Mg composites for hydrogen storage The dependence of hydriding properties on composition. <i>Journal of Alloys and Compounds</i> , 1997, 261, 276-280.	2.8	45

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55	First-Principles Determination of the Ground-State Structure of LiBH_4 . Physical Review Letters, 2010, 104, 215501.	2.9	45
56	Stability of the $\text{LiBH}_4/\text{CeH}_2$ Composite System Determined by Dynamic pT Measurements. Journal of Physical Chemistry C, 2010, 114, 16801-16805.	1.5	44
57	Solvent-free synthesis and stability of $\text{MgB}_{12}\text{H}_{12}$. Journal of Materials Chemistry A, 2014, 2, 7244-7249.	5.2	41
58	Surface and bulk properties of the $\text{TiyZr}_{1-y}(\text{VxNi}_{1-x})_2$ alloy system as active electrode material in alkaline electrolyte. Journal of Alloys and Compounds, 1995, 231, 645-649.	2.8	39
59	First-principles determination of the ground-state structure of $\text{Mg}(\text{BH}_4)_2$. Chemical Physics Letters, 2009, 480, 203-209.	1.2	38
60	Incarceration of Iodine in a Pyrene-Based Metal-Organic Framework. Chemistry - A European Journal, 2019, 25, 501-506.	1.7	38
61	Monocarborane cluster as a stable fluorine-free calcium battery electrolyte. Scientific Reports, 2021, 11, 7563.	1.6	38
62	Composition of Hydrofullerene Mixtures Produced by C_{60} Reaction with Hydrogen Gas Revealed by High-Resolution Mass Spectrometry. Journal of Physical Chemistry B, 2005, 109, 12742-12747.	1.2	37
63	Hydrogen storage and distribution systems. Mitigation and Adaptation Strategies for Global Change, 2007, 12, 343-365.	1.0	37
64	CO_2 hydrogenation on a metal hydride surface. Physical Chemistry Chemical Physics, 2012, 14, 5518.	1.3	37
65	Hydrogen storage properties of various carbon supported NaBH_4 prepared via metathesis. International Journal of Hydrogen Energy, 2018, 43, 7108-7116.	3.8	37
66	Nitrogen-doped carbon black supported Pt-M (M = Pd, Fe, Ni) alloy catalysts for oxygen reduction reaction in proton exchange membrane fuel cell. Materials Today Energy, 2019, 13, 374-381.	2.5	37
67	Effect of the surface oxidation of LiBH_4 on the hydrogen desorption mechanism. Physical Chemistry Chemical Physics, 2010, 12, 10950.	1.3	36
68	Study of borohydride ionic liquids as hydrogen storage materials. Journal of Energy Chemistry, 2019, 33, 17-21.	7.1	36
69	AB_2 and AB_5 metal hydride electrodes: a phenomenological model for the cycle life. Journal of Alloys and Compounds, 1993, 200, 157-163.	2.8	35
70	A novel method for the synthesis of solvent-free $\text{Mg}(\text{B}_3\text{H}_8)_2$. Dalton Transactions, 2016, 45, 3687-3690.	1.6	35
71	Synergistic Cu/CeO ₂ carbon nanofiber catalysts for efficient CO_2 electroreduction. Electrochemistry Communications, 2020, 114, 106716.	2.3	34
72	Synthesis of C_{59}H_x and C_{58}H_x Fullerenes Stabilized by Hydrogen. Journal of Physical Chemistry B, 2005, 109, 5403-5405.	1.2	32

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73	Unraveling and optimizing the metal-metal oxide synergistic effect in a highly active Co (CoO) _{1-x} catalyst for CO ₂ hydrogenation. Journal of Energy Chemistry, 2021, 53, 241-250.	7.1	32
74	Effects of electrode compacting additives on the cycle life and high-rate dischargeability of Zr(V _{0.25} Ni _{0.75}) ₂ metal hydride electrodes in alkaline solution. Journal of Alloys and Compounds, 1994, 206, 31-38.	2.8	31
75	Model based determination of the optimal reactor concept for Sabatier reaction in small-scale applications over Ru/Al ₂ O ₃ . Chemical Engineering Journal, 2019, 375, 121954.	6.6	31
76	Solvent- and Catalyst-Free Carbon Dioxide Capture and Reduction to Formate with Borohydride Ionic Liquid. ChemSusChem, 2020, 13, 2025-2031.	3.6	31
77	Tandem effect of Ag@C@Cu catalysts enhances ethanol selectivity for electrochemical CO ₂ reduction in flow reactors. Cell Reports Physical Science, 2022, 3, 100949.	2.8	31
78	Surface and bulk reactions in borohydrides and amides. Energy and Environmental Science, 2012, 5, 6823.	15.6	30
79	Storage of Renewable Energy by Reduction of CO ₂ with Hydrogen. Chimia, 2015, 69, 264.	0.3	29
80	Hydrogen storage and electrochemical properties of LaNi _{5-x} Cu _x hydride-forming alloys. Journal of Alloys and Compounds, 2019, 775, 175-180.	2.8	29
81	Direct CO ₂ Capture and Reduction to High-End Chemicals with Tetraalkylammonium Borohydrides. Angewandte Chemie - International Edition, 2021, 60, 9580-9589.	7.2	28
82	A model-based comparison of Ru and Ni catalysts for the Sabatier reaction. Sustainable Energy and Fuels, 2020, 4, 1396-1408.	2.5	26
83	Support-Dependent Cu ⁰ in Bimetallic Catalysts for Tailoring the Activity of Reverse Water Gas Shift Reaction. ACS Sustainable Chemistry and Engineering, 2022, 10, 1524-1535.	3.2	26
84	Titanium and native defects in LiBH ₄ and NaAlH ₄ . Journal of Physics Condensed Matter, 2008, 20, 465210.	0.7	25
85	Parametric sensitivity in the Sabatier reaction over Ru/Al ₂ O ₃ – theoretical determination of the minimal requirements for reactor activation. Reaction Chemistry and Engineering, 2019, 4, 100-111.	1.9	25
86	Engineering long-term stability into perovskite solar cells via application of a multi-functional TFSI-based ionic liquid. Cell Reports Physical Science, 2021, 2, 100475.	2.8	25
87	Properties of Zr(V _{0.25} Ni _{0.75}) ₂ metal hydride as active electrode material. Journal of Alloys and Compounds, 1996, 239, 175-182.	2.8	23
88	On the possibility of metal hydride formation. Journal of Alloys and Compounds, 1998, 274, 239-247.	2.8	23
89	Interface reactions and stability of a hydride composite (NaBH ₄ + MgH ₂). Physical Chemistry Chemical Physics, 2012, 14, 8360.	1.3	23
90	Description of the capacity degradation mechanism in LaNi ₅ -based alloy electrodes. Journal of Alloys and Compounds, 2015, 621, 225-231.	2.8	23

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91	Identifying Reaction Species by Evolutionary Fitting and Kinetic Analysis: An Example of CO ₂ Hydrogenation in DRIFTS. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8785-8792.	1.5	23
92	Crystal Structural Investigations for Understanding the Hydrogen Storage Properties of YMgNi ₄ -Based Alloys. <i>ACS Omega</i> , 2020, 5, 31192-31198.	1.6	22
93	Influence of Composition on Performance in Metallic Iron-Nickel-Cobalt Ternary Anodes for Alkaline Water Electrolysis. <i>ACS Catalysis</i> , 2020, 10, 12139-12147.	5.5	20
94	The Role of Ti in Alanates and Borohydrides: Catalysis and Metathesis. <i>Journal of Physical Chemistry C</i> , 2014, 118, 77-84.	1.5	19
95	Avoiding chromium transport from stainless steel interconnects into contact layers and oxygen electrodes in intermediate temperature solid oxide electrolysis stacks. <i>Journal of Power Sources</i> , 2014, 270, 587-593.	4.0	19
96	Hydrogen Desorption Kinetics in Metal Intercalated Fullerenes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1714-1719.	1.5	18
97	First-principles study of the paths of the decomposition reaction of LiBH ₄ . <i>Molecular Physics</i> , 2010, 108, 1263-1276.	0.8	17
98	Thermal properties of Y(BH ₄) ₃ synthesized via two different methods. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9263-9270.	3.8	17
99	CO ₂ Hydrogenation over Unsupported Fe-Co Nanoalloy Catalysts. <i>Nanomaterials</i> , 2020, 10, 1360.	1.9	17
100	First principles study of \pm -boron: can the B ₁₂ cage host hetero-atoms?. <i>Molecular Physics</i> , 2009, 107, 1831-1842.	0.8	16
101	Effect of Boron Doping On Graphene Oxide for Ammonia Adsorption. <i>ChemNanoMat</i> , 2017, 3, 794-797.	1.5	16
102	Small-scale demonstration of the conversion of renewable energy to synthetic hydrocarbons. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1748-1758.	2.5	16
103	The role of malachite nanorods for the electrochemical reduction of CO ₂ to C ₂ hydrocarbons. <i>Electrochimica Acta</i> , 2019, 297, 55-60.	2.6	16
104	Influence of the alloy morphology on the kinetics of AB ₅ -type metal hydride electrodes. <i>Journal of Alloys and Compounds</i> , 1999, 285, 292-297.	2.8	15
105	Hydrogen Dynamics in Lightweight Tetrahydroborates. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 263-278.	1.4	15
106	Insight into the decomposition pathway of the complex hydride Al ₃ Li ₄ (BH ₄) ₁₃ . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2790-2795.	3.8	15
107	The Origin of the Catalytic Activity of a Metal Hydride in CO ₂ Reduction. <i>Angewandte Chemie</i> , 2016, 128, 6132-6136.	1.6	15
108	Modelling the CO ₂ hydrogenation reaction over Co, Ni and Ru/Al ₂ O ₃ . <i>Journal of Catalysis</i> , 2019, 375, 193-201.	3.1	15

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109	Near ambient-pressure X-ray photoelectron spectroscopy study of CO ₂ activation and hydrogenation on indium/copper surface. <i>Journal of Catalysis</i> , 2021, 395, 315-324.	3.1	15
110	Surface Oxygenate Species on TiC Reinforce Cobalt-Catalyzed Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2021, 11, 8087-8096.	5.5	15
111	Experimental performance investigation of a 2 kW methanation reactor. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1101-1110.	2.5	14
112	Imaging Catalysis: Operando Investigation of the CO ₂ Hydrogenation Reaction Dynamics by Means of Infrared Thermography. <i>ACS Catalysis</i> , 2020, 10, 1721-1730.	5.5	14
113	The catalyzed hydrogen sorption mechanism in alkali alanates. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20932-20940.	1.3	13
114	High Influence of Potassium Bromide on Thermal Decomposition of Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25276-25288.	1.5	13
115	Thermal stability of size-selected copper nanoparticles: Effect of size, support and CO ₂ hydrogenation atmosphere. <i>Applied Surface Science</i> , 2020, 510, 145439.	3.1	13
116	Electrospun nanofibers for electrochemical reduction of CO ₂ : A mini review. <i>Electrochemistry Communications</i> , 2021, 124, 106968.	2.3	13
117	Membrane electrode assembly fabricated with the combination of Pt/C and hollow shell structured-Pt-SiO ₂ @ZrO ₂ sphere for self-humidifying proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2017, 367, 8-16.	4.0	12
118	On the possibility of metal hydride formation. <i>Journal of Alloys and Compounds</i> , 1998, 274, 234-238.	2.8	11
119	Hydrogen absorption and hydride electrode behaviour of the Laves phase ZrV _{1.5} xCr _x Ni _{1.5} . <i>Journal of Alloys and Compounds</i> , 1999, 291, 289-294.	2.8	11
120	Characteristics and properties of nano-LiCoO ₂ synthesized by pre-organized single source precursors: Li-ion diffusivity, electrochemistry and biological assessment. <i>Journal of Nanobiotechnology</i> , 2017, 15, 58.	4.2	11
121	Methanol production from CO ₂ via an integrated, formamide-assisted approach. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1773-1779.	2.5	11
122	Bulk and surface properties of crystalline and amorphous Zr ₃₆ (V _{0.33} Ni _{0.66}) ₆₄ alloy as active electrode material. <i>Journal of Alloys and Compounds</i> , 1998, 266, 321-326.	2.8	10
123	Cobalt-free over-stoichiometric Laves phase alloys for Ni-MH batteries. <i>Journal of Alloys and Compounds</i> , 2003, 350, 319-323.	2.8	10
124	Hydrogen dynamics in the low temperature phase of LiBH ₄ probed by quasielastic neutron scattering. <i>Chemical Physics</i> , 2013, 427, 18-21.	0.9	10
125	Effect of composition and particle morphology on the electrochemical properties of LaNi ₅ -based alloy electrodes. <i>Journal of Alloys and Compounds</i> , 2014, 607, 32-38.	2.8	10
126	Destabilizing sodium borohydride with an ionic liquid. <i>Materials Today Energy</i> , 2018, 9, 391-396.	2.5	10

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127	Influence of electrode thickness on charge-discharge behaviour of AB5-type metal hydride electrodes. Journal of Alloys and Compounds, 1995, 221, 207-211.	2.8	9
128	Revealing the Surface Chemistry for CO ₂ Hydrogenation on Cu/CeO ₂ Using Near-Ambient-Pressure X-ray Photoelectron Spectroscopy. ACS Applied Energy Materials, 2021, 4, 12326-12335.	2.5	9
129	Halide exchange in the passivation of perovskite solar cells with functionalized ionic liquids. Cell Reports Physical Science, 2022, 3, 100848.	2.8	9
130	Hydrogen Interaction with Carbon Nanostructures. Journal of Metastable and Nanocrystalline Materials, 2001, 11, 95-0.	0.1	8
131	Ti cations in sodium alanate. Journal of Alloys and Compounds, 2009, 471, L29-L31.	2.8	8
132	Reactivity enhancement of oxide skins in reversible Ti-doped NaAlH ₄ . AIP Advances, 2014, 4, 127130.	0.6	8
133	Storing Renewable Energy in the Hydrogen Cycle. Chimia, 2015, 69, 741-745.	0.3	8
134	Fast real time and quantitative gas analysis method for the investigation of the CO ₂ reduction reaction mechanism. Review of Scientific Instruments, 2018, 89, 114102.	0.6	8
135	Accurate measurement of pressure-composition isotherms and determination of thermodynamic and kinetic parameters of metal hydrides. International Journal of Hydrogen Energy, 2019, 44, 13583-13591.	3.8	8
136	Selective Borohydride Oxidation Reaction on Nickel Catalyst with Anion and Cation Exchange Ionomer for High-Performance Direct Borohydride Fuel Cells. Advanced Energy Materials, 2022, 12, .	10.2	8
137	ZrV _{1.5} Ni _{1.5} as electrode material in nickel-metal hydride batteries An in situ scanning tunnelling microscopy investigation. Journal of Alloys and Compounds, 1997, 260, 265-270.	2.8	7
138	Hydriding properties of the Zr(Cr _{0.5} Ni _{0.5}) _{1±} (1.75±3.5) alloy system. Journal of Alloys and Compounds, 1998, 274, 294-298.	2.8	7
139	Surface properties of V ₄₀ (TiCr) ₅₁ Fe ₈ Mn alloy during hydrogenation/dehydrogenation cycles. Journal of Alloys and Compounds, 2013, 580, S156-S158.	2.8	7
140	Electrochemical properties of Zr (V _x Ni _{1-x}) ₃ as electrode material in nickel-metal hydride batteries. International Journal of Hydrogen Energy, 1999, 24, 229-233.	3.8	6
141	Post-Synthesis Amine Borane Functionalization of a Metal-Organic Framework and Its Unusual Chemical Hydrogen Release Phenomenon. Chemistry - A European Journal, 2017, 23, 8823-8828.	1.7	6
142	Dual-Functional Photocatalysis: Concurrent Photocatalytic Hydrogen Generation and Dye Degradation Using MIL-125-NH ₂ under Visible Light Irradiation (Adv. Funct. Mater. 52/2018). Advanced Functional Materials, 2018, 28, 1870373.	7.8	6
143	Complex hydrides for CO ₂ reduction. MRS Bulletin, 2022, 47, 424-431.	1.7	6
144	In situ STM investigation of metal hydride electrodes in alkaline electrolyte during electrochemical cycles. Journal of Alloys and Compounds, 1997, 261, 273-275.	2.8	5

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145	Nanostructured graphite-hydrogen systems prepared by mechanical milling method. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 386, 173-178.	0.4	5
146	New Ni _{0.5} Ti ₂ (PO ₄) ₃ @C NASICON-type Electrode Material with High Rate Capability Performance for Lithium-ion Batteries: Synthesis and Electrochemical Properties. <i>ChemSusChem</i> , 2019, 12, 4846-4853.	3.6	5
147	Synthesis of grid compliant substitute natural gas from a representative biogas mixture in a hybrid Ni/Ru catalysed reactor. <i>Chemical Engineering Science: X</i> , 2020, 8, 100078.	1.5	4
148	Supercritical Nitrogen Processing for the Purification of Reactive Porous Materials. <i>Journal of Visualized Experiments</i> , 2015, , e52817.	0.2	3
149	Surface Reactions are Crucial for Energy Storage. <i>Chimia</i> , 2015, 69, 269.	0.3	3
150	Effects of Ball Milling and TiF ₃ Addition on the Dehydrogenation Temperature of Ca(BH ₄) ₂ Polymorphs. <i>Energies</i> , 2020, 13, 4828.	1.6	3
151	Phase analysis and atom distribution in the Zr(V _{0.5} Ni _{0.5}) ₃ D _x (x=0,4.6) alloy system with Laves-type AB ₂ structure. <i>Journal of Alloys and Compounds</i> , 2002, 333, 99-102.	2.8	2
152	Direct CO ₂ Capture and Reduction to High-End Chemicals with Tetraalkylammonium Borohydrides. <i>Angewandte Chemie</i> , 2021, 133, 9666-9675.	1.6	2
153	Hydrogen Storage by Reduction of CO ₂ to Synthetic Hydrocarbons. <i>Chimia</i> , 2021, 75, 156.	0.3	1
154	Time and Frequency Resolved Hydrogen Dynamics in deuterated LiBH ₄ . <i>Materials Research Society Symposia Proceedings</i> , 2009, 1216, 1.	0.1	0
155	Evidence for Hydrogen Transport in Deuterated LiBH ₄ from Raman-Scattering Measurements and First-Principles Calculations. <i>Advances in Science and Technology</i> , 2010, 72, 150-157.	0.2	0
156	A combined diffuse reflectance infrared Fourier transform spectroscopy-mass spectroscopy-gas chromatography for the <i>in operando</i> study of the heterogeneously catalyzed CO ₂ hydrogenation over transition metal-based catalysts. <i>Review of Scientific Instruments</i> , 2020, 91, 074102.	0.6	0
157	EXPERIMENTAL TECHNIQUES TO MEASURE OF THE EQUILIBRIUM PLATEAU PRESSURES OF METAL HYDRIDES. , 2009, , .		0