Yun-Lei Teng

List of Publications by Year
in descending order

65	1,193	471371 17	414303 32
papers	citations	h-index	g-index

67	67	67	1341
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomically dispersed Feâ€“Nâ€“C catalyst displaying ultra-high stability and recyclability for efficient electroreduction of CO₂ to CO. Chemical Communications, 2022, 58, 2512-2515.	2.2	10
2	Alkaline Earth Metal-Induced Hydrogenation of the CaO-Captured CO₂ to Methane at Room Temperature. Industrial & Engineering Chemistry Research, 2022, 61, 10124-10132.	1.8	4
3	One-pot preparation of H2-mixed CH4 fuel and CaO-based CO2 sorbent by the hydrogenation of waste clamshell/eggshell at room temperature. Journal of Environmental Management, 2022, 319, 115617.	3.8	2
4	Selective methanation of carbonate@carbon composite formed by the reaction of carbon dioxide with alkali metals. International Journal of Energy Research, 2021, 45, 3385-3396.	2.2	3
5	Storage and in-situ preparation of H2-mixed CH4 fuel by thermochemical reduction of inorganic carbonates with activated metal hydrides. Fuel, 2021, 292, 120395.	3.4	9
6	One-step and sustainable preparations of inert additive-doped CaO-based CO2 adsorbents by hydrogenation reduction of CaCO3. Chemical Engineering Journal, 2021, 418, 129479.	6.6	10
7	Impact of grain size and reactant ratio on reduction of CO2 to CH4 by alkali metal hydride. Green Materials, 2021, 9, 120-130.	1.1	0
8	A new É›-Keggin polyoxometalate-based metal-organic framework: From design and synthesis to electrochemical hydrogen evolution. Catalysis Communications, 2021, 161, 106367.	1.6	16
9	Cyclic reaction-induced enhancement in the dehydrogenation performances of the KNH2-doped LiNH2 and LiH system. International Journal of Hydrogen Energy, 2020, 45, 25927-25934.	3.8	9
10	Improved mechanochemical methanation performance of the metal carbonate-hydride system. Solid State Sciences, 2020, 109, 106398.	1.5	2
11	Revealing the structureâ€“activity relationship of two Cu-porphyrin-based metalâ€–organic frameworks for the electrochemical CO₂-to-HCOOH transformation. Dalton Transactions, 2020, 49, 14995-15001.	1.6	28
12	Thermal Reduction of CO₂ with Activated Alkali Metal Aluminum Hydrides for Selective Methanation. Energy & Fuels, 2020, 34, 11210-11218.	2.5	4
13	Metal carbonates-induced solution-free dehydrogenation of alkaline earth metal hydrides at room temperature. Journal of Solid State Chemistry, 2020, 289, 121485.	1.4	1
14	Acquiring an effective CaO-based CO₂ sorbent and achieving selective methanation of CO₂. RSC Advances, 2020, 10, 21509-21516.	1.7	8
15	Mechanochemical reactions of alkali borohydride with CO2 under ambient temperature. Journal of Solid State Chemistry, 2019, 277, 828-832.	1.4	11
16	Adenine Components in Biomimetic Metalâ€“Organic Frameworks for Efficient CO₂ Photoconversion. Angewandte Chemie, 2019, 131, 5280-5285.	1.6	52
17	Frontispiz: Adenine Components in Biomimetic Metalâ€“Organic Frameworks for Efficient CO₂ Photoconversion. Angewandte Chemie, 2019, 131, .	1.6	0
18	Efficiently generating COx-free hydrogen by mechanochemical reaction between alkali hydrides and carbon dioxide. International Journal of Hydrogen Energy, 2019, 44, 18159-18168.	3.8	6

#	Article	IF	Citations
19	Fabrication of a water-stable luminescent MOF with an open Lewis basic triazolyl group for the high-performance sensing of acetone and Fe3+ ions. Journal of Materials Science, 2019, 54, 10644-10655.	1.7	40
20	Frontispiece: Adenine Components in Biomimetic Metalâ€“Organic Frameworks for Efficient CO₂ Photoconversion. Angewandte Chemie - International Edition, 2019, 58, .	7.2	0
21	Highly Selective and Efficient Reduction of CO₂ to Methane by Activated Alkaline Earth Metal Hydrides without a Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 4831-4841.	3.2	17
22	Highly Selective Roomâ€Temperature Catalystâ€Free Reduction of Alkaline Carbonates to Methane by Metal Hydrides. Energy Technology, 2019, 7, 1800719.	1.8	11
23	Highly sensitive and recyclable sensing of Fe3+ ions based on a luminescent anionic [Cd(DMIPA)]2- framework with exposed thioether group in the snowflake-like channels. Journal of Solid State Chemistry, 2019, 270, 493-499.	1.4	31
24	Adenine Components in Biomimetic Metalâ€“Organic Frameworks for Efficient CO₂ Photoconversion. Angewandte Chemie - International Edition, 2019, 58, 5226-5231.	7.2	150
25	Dehydrogenation reactions of mechanically activated alkali metal hydrides with CO2 at room temperature. International Journal of Hydrogen Energy, 2018, 43, 5068-5076.	3.8	9
26	The effect of KH on enhancing the dehydrogenation properties of the Liâ€“Nâ€“H system and its catalytic mechanism. Physical Chemistry Chemical Physics, 2018, 20, 11116-11122.	1.3	9
27	An Ultrastable Luminescent Metalâ€“Organic Framework for Selective Sensing of Nitroaromatic Compounds and Nitroimidazole-Based Drug Molecules. Crystal Growth and Design, 2018, 18, 431-440.	1.4	115
28	Electrochemical Reduction of CO₂ to CO by a Heterogeneous Catalyst of Feâ€“Porphyrin-Based Metalâ€“Organic Framework. ACS Applied Energy Materials, 2018, 1, 4662-4669.	2.5	123
29	Superior effect of RbF on decreasing the dehydrogenation operating temperature of the LiNH2LiH system. Journal of Alloys and Compounds, 2017, 697, 62-67.	2.8	10
30	Synthesis, characterization, and crystal structure of a 3D coordination polymer [Cd2Â·(H3C9N12)Â·ClÂ·(H2O)2]. Inorganic and Nano-Metal Chemistry, 2017, 47, 549-552.	0.9	1
31	Synergetic effects of K, Ti and F on the hydrogen storage properties of the Li N H system. International Journal of Hydrogen Energy, 2017, 42, 17149-17156.	3.8	5
32	Synthesis, structure and luminescent properties of halogenated isophthalic acid-directed frameworks in virtue of flexible and semiflexible N-containing ligands. Journal of Molecular Structure, 2017, 1139, 202-208.	1.8	0
33	Construction of (3,4)-Connected Polyoxometalate-Based Metalâ€“Organic Frameworks (POMOFs) from Triangular Carboxylate and Tetrahedral Zn₄-Îµ-Keggin. Crystal Growth and Design, 2017, 17, 5309-5317.	1.4	43
34	Construction of (3,6)-connected polyoxometalate-based metalâ€“organic frameworks (POMOFs) from triangular carboxylate and dimerized Zn₄-Îµ-Keggin. Dalton Transactions, 2017, 46, 14286-14292.	1.6	17
35	Mechanochemical synthesis of COx-free hydrogen and methane fuel mixtures at room temperature from light metal hydrides and carbon dioxide. Applied Energy, 2017, 204, 741-748.	5.1	17
36	Effects of MWCNTs on improving the hydrogen storage performance of the Li3N system. International Journal of Hydrogen Energy, 2017, 42, 987-995.	3.8	6

#	Article	IF	Citations
37	Effect of alkali metal amides on the improvement of dehydrogenation for the LiHâ€“NH3 system. Journal of Materials Science, 2016, 51, 911-916.	1.7	7
38	Diverse CdII coordination complexes derived from bromide isophthalic acid binding with auxiliary N-donor ligands. Journal of Solid State Chemistry, 2016, 244, 12-19.	1.4	4
39	Thermochemical Reduction of Carbon Dioxide with Alkali Metal Hydrides, Producing Methane and Hydrogen Fuels at Moderate Temperatures. Energy & Fuels, 2016, 30, 6620-6625.	2.5	18
40	Solvent- and Temperature-Induced Multiple Crystal Phases: Crystal Structure, Selective Adsorption, and Separation of Organic Dye in Three S-Containing {[Cd(MIPA)]_n}^{nâ^} Homologues. Crystal Growth and Design, 2016, 16, 6363-6370.	1.4	29
41	Hydrogen desorption improvement of the LiNH2â€“LiHâ€“KF composite. International Journal of Hydrogen Energy, 2016, 41, 16122-16128.	3.8	12
42	A novel hydrogen storage system of KLi3(NH2)4-4LiH with superior cycling stability. International Journal of Hydrogen Energy, 2016, 41, 5371-5377.	3.8	16
43	Synthesis, Crystal Structure and Electrochemical Properties of A New 2D Network Containing Linear {Îµ-H2PMo 8 V Mo 4 VI O40Zn4}â^ž Inorganic Chain. Journal of Cluster Science, 2016, 27, 361-371.	1.7	10
44	Improved dehydrogenation properties of the LiNH₂â€“LiH system by doping with alkali metal hydroxide. Journal of Materials Chemistry A, 2015, 3, 905-911.	5.2	29
45	A New 2D Network Constructed from the Extension of Transition-Metal-Grafted Îµ-Keggin Polyoxoanion by a Bridging Organic Carboxylate. Journal of Cluster Science, 2015, 26, 1595-1605.	1.7	14
46	The first tritopic bridging ligand 1,3,5-tris(4-carboxyphenyl)-benzene (H₃BTB) functionalized porous polyoxometalate-based metalâ€“organic framework (POMOF): from design, synthesis to electrocatalytic properties. Dalton Transactions, 2015, 44, 1435-1440.	1.6	55
47	Enhanced hydrogen desorption reaction kinetics by optimizing the reaction conditions and doping potassium compounds in the LiHâ€“NH3 system. International Journal of Hydrogen Energy, 2014, 39, 13838-13843.	3.8	16
48	The ternary amide KLi3(NH2)4: an important intermediate in the potassium compound-added Liâ€“Nâ€“H systems. RSC Advances, 2014, 4, 10702-10707.	1.7	13
49	The interesting and superior hydrogenation properties of potassium-doped LiNH2 and its ternary mixed-cationic amide. RSC Advances, 2013, 3, 16977.	1.7	7
50	Spontaneous resolution of 3D chiral hexadecavanadate-based frameworks incorporating achiral flexible and rigid ligands. CrystEngComm, 2013, 15, 2783-2785.	1.3	22
51	Catalytic Effect of Tiâ^'Liâ^'N Compounds in the Liâ^'Nâ^'H System on Hydrogen Desorption Properties. Journal of Physical Chemistry C, 2011, 115, 589-593.	1.5	15
52	Improvement of hydrogen desorption kinetics in the LiHâ€“NH3 system by addition of KH. Chemical Communications, 2011, 47, 12227.	2.2	30
53	Reactions of Yttrium and Scandium Atoms with Acetylene: A Matrix Isolation Infrared Spectroscopic and Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 9069-9073.	1.1	18
54	Infrared spectroscopic and theoretical studies on the formation of Au2NOâ^' and AunNO (n=2â€“5) in solid argon. Journal of Chemical Physics, 2009, 130, 134511.	1.2	13

#	Article	IF	Citations
55	Reactions of Group 14 Metal Atoms with Acetylene: A Matrix Isolation Infrared Spectroscopic and Theoretical Study. Journal of Physical Chemistry A, 2009, 113, 12163-12170.	1.1	13
56	Matrix Isolation Infrared Spectroscopic and Density Functional Theoretical Studies on the Reactions of Lanthanum Atoms with Acetylene. Journal of Physical Chemistry A, 2008, 112, 10274-10279.	1.1	12
57	Matrix Isolation Infrared Spectroscopic Studies and Density Functional Theory Calculations of the MNN, (MN)₂ (M = Y and La), and Y₃NN Molecules. Journal of Physical Chemistry A, 2008, 112, 3607-3613.	1.1	10
58	Matrix Isolation Infrared Spectroscopic and Density Functional Theory Studies on the Reactions of Yttrium and Lanthanum Hydrides with Dinitrogen. Journal of Physical Chemistry A, 2008, 112, 7594-7599.	1.1	5
59	Matrix Isolation Infrared Spectroscopic and Density Functional Theory Studies on the Reactions of Dysprosium Hydride with Carbon Monoxide. Bulletin of the Chemical Society of Japan, 2008, 81, 1575-1579.	2.0	0
60	Matrix-Isolation Infrared Spectroscopic and Density Functional Theory Studies on Reactions of Laser-Ablated Lead and Tin Atoms with Water Molecules. Bulletin of the Chemical Society of Japan, 2007, 80, 2149-2156.	2.0	6
61	Matrix-Isolation Infrared Spectroscopic and Theoretical Studies on Reactions of Laser-Ablated Germanium Atoms with Water Molecules. Journal of Physical Chemistry A, 2007, 111, 6225-6231.	1.1	6
62	Infrared Spectroscopic and Density Functional Theory Study on the Reactions of Rhodium and Cobalt Atoms with Carbon Dioxide in Rare-Gas Matrixes. Journal of Physical Chemistry A, 2007, 111, 7793-7799.	1.1	10
63	Matrix Isolation Infrared Spectroscopic and Density Functional Theory Studies on the Reactions of Yttrium and Lanthanum Hydrides with Carbon Monoxide. Journal of Physical Chemistry A, 2007, 111, 13380-13386.	1.1	4
64	Reactions of Laser-Ablated Zinc and Cadmium Atoms with CO:Â Infrared Spectra of the Zn(CO)x(x= 1â˜3), CdCO-, and Cd(CO)2Molecules in Solid Neon. Journal of Physical Chemistry A, 2006, 110, 7092-7096.	1.1	20
65	Highly efficient reduction of CO 2 by magnesium and calcium hydride producing H 2 â€mixed CH 4 : Effect of the particle size and the molar ratio of reactant. , 0, , .		0