Fumitaka Hayashi

List of Publications by Year
in descending order

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31 papers	1,745 citations	687363 13 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	2652 citing authors

#	Article	IF	Citations
1	Ammonia synthesis using a stable electride as an electron donor and reversible hydrogen store. Nature Chemistry, 2012, 4, 934-940.	13.6	1,085
2	Ammonia decomposition by ruthenium nanoparticles loaded on inorganic electride C12A7:eâ˜. Chemical Science, 2013, 4, 3124.	7.4	148
3	Superconductivity and phase instability of NH3-free Na-intercalated FeSe1-zSz. Nature Communications, 2014, 5, 4756.	12.8	76
4	Yttrium-Modified Ceria As a Highly Durable Catalyst for the Selective Conversion of Ethanol to Propene and Ethene. ACS Catalysis, 2013, 3, 14-17.	11.2	58
5	Surface structure of yttrium-modified ceria catalysts and reaction pathways from ethanol to propene. Journal of Catalysis, 2014, 316, 112-120.	6.2	51
6	Modulation Effect of Interlayer Spacing on the Superconductivity of Electron-Doped FeSe-Based Intercalates. Inorganic Chemistry, 2015, 54, 3346-3351.	4.0	43
7	NH2â€“ Dianion Entrapped in a Nanoporous 12CaOÂ·7Al2O3 Crystal by Ammonothermal Treatment: Reaction Pathways, Dynamics, and Chemical Stability. Journal of the American Chemical Society, 2014, 136, 11698-11706.	13.7	34
8	Fast and Almost Complete Nitridation of Mesoporous Silica MCMâ€41 with Ammonia in a Plugâ€Flow Reactor. Journal of the American Ceramic Society, 2010, 93, 104-110.	3.8	31
9	Effect of Pore Structure on the Nitridation of Mesoporous Silica with Ammonia. European Journal of Inorganic Chemistry, 2010, 2010, 2235-2243.	2.0	18
10	Emergence of magnetism and controlling factors of superconductivity in Li/Na-ammonia cointercalated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>FeS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â˜’</mml:mo><mml:mi>z</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mi>z</mml:mi></mml:msub></mml:mrow></mml:math>. Exceptional	3.2	17
11	Flux Growth and Chemical Transformation of Metastable Orthorhombic LiMnO2 Cuboids into Hierarchically-Structured Porous H1.6Mn1.6O4 Rods as Li Ion Sieves. Crystal Growth and Design, 2016, 16, 6178-6185.	3.0	17
12	Effects of Alkali Cations and Sulfate/Chloride Anions on the Flux Growth of {001}-Faceted Î²-Li₂TiO₃ Crystals. Crystal Growth and Design, 2017, 17, 1118-1124.	3.0	17
13	Platy KTiNbO5 as a Selective Sr Ion Adsorbent: Crystal Growth, Adsorption Experiments, and DFT Calculations. Journal of Physical Chemistry C, 2016, 120, 11984-11992.	3.1	15
14	Highly Crystalline Niâ€“Co Layered Double Hydroxide Fabricated via Topochemical Transformation with a High Adsorption Capacity for Nitrate Ions. Inorganic Chemistry, 2019, 58, 15710-15719.	4.0	13
15	Growth of Î²-Li₂TiO₃ Nanocrystals from LiCl and LiOH Fluxes. Crystal Growth and Design, 2019, 19, 1377-1383.	3.0	13
16	Rapid and Deep Nitridation of Silica MCM-41 without Loss of Hexagonal Pore Structure. Chemistry Letters, 2007, 36, 1416-1417.	1.3	12
17	Surface Treatment for Conductive 12â€‰CaOâ‹…7â€‰Al₂O₃ Electride Powder by Rapid Thermal Annealing Processing and Its Application to Ammonia Synthesis. ChemCatChem, 2014, 6, 1317-1323.	3.7	11
18	Formation of high electrical-resistivity thin surface layer on carbonyl-iron powder (CIP) and thermal stability of nanocrystalline structure and vortex magnetic structure of CIP. AIP Advances, 2016, 6, 055932.	1.3	11

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19	Unique Growth Manner of Li₅La₃Ta₂O₁₂ Crystals from Lithium Hydroxide Flux at Low Temperature. Crystal Growth and Design, 2015, 15, 4863-4868.	3.0	10
20	Ammonia synthesis over rhenium supported on mesoporous silica MCM-41. Microporous and Mesoporous Materials, 2011, 146, 184-189.	4.4	9
21	Favorable Intercalation of Nitrate Ions with Fluorine-Substituted Layered Double Hydroxides. Inorganic Chemistry, 2020, 59, 1602-1610.	4.0	9
22	Flux-boosted coating of idiomorphic CuInS₂crystal layers on Mo-coated glass substrate. CrystEngComm, 2016, 18, 3612-3616.	2.6	8
23	Flux-Boosted Sulfide Crystal Growth: Growth of CuInS₂ Crystals by NaClâ€“InCl₃ Evaporation. Crystal Growth and Design, 2016, 16, 1195-1199.	3.0	8
24	Growth of {100}-faceted NaFeTiO₄ crystals with a tunable aspect ratio from a NaClâ€“Na₂SO₄ binary flux. CrystEngComm, 2018, 20, 873-878.	2.6	7
25	Hierarchical spheres of Mgâ€“Al LDH for the removal of phosphate ions: effect of alumina polymorph as precursor. CrystEngComm, 2019, 21, 7211-7216.	2.6	7
26	Flux-Assisted Fabrication of Vertically Aligned Layered Double Hydroxide Plates on in Situ Formed Alumina Particles. Crystal Growth and Design, 2015, 15, 732-736.	3.0	6
27	Fabrication of Fluorapatite Nanocrystal-Activated Carbon Composite by the Atmospheric Pressure Plasma-Assisted Flux Method. Crystal Growth and Design, 2018, 18, 5763-5769.	3.0	6
28	Flux Growth of Single-Crystalline Hollandite-Type Potassium Ferrotitanate Microrods From KCl Flux. Frontiers in Chemistry, 2020, 8, 714.	3.6	3
29	Almost Complete Nitridation of Mesoporous Silica to Mesoporous Silicon (Oxy)Nitride with Ammonia. Advances in Science and Technology, 2010, 68, 159-164.	0.2	1
30	Liquid exfoliation of five-coordinate layered titanate K₂Ti₂O₅ single crystals in water. CrystEngComm, 2022, 24, 5112-5119.	2.6	1
31	Formation of alkali metal titanate nanocrystals using titanium alkoxide. Research on Chemical Intermediates, 0, , 1.	2.7	0