

# 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	Liquid exfoliation of five-coordinate layered titanate $K_2Ti_2O_5$ single crystals in water. <i>CrystEngComm</i> , 2022, 24, 5112-5119.	2.6	1
2	Favorable Intercalation of Nitrate Ions with Fluorine-Substituted Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2020, 59, 1602-1610.	4.0	9
3	Flux Growth of Single-Crystalline Hollandite-Type Potassium Ferrotitanate Microrods From KCl Flux. <i>Frontiers in Chemistry</i> , 2020, 8, 714.	3.6	3
4	Highly Crystalline Ni-Co Layered Double Hydroxide Fabricated via Topochemical Transformation with a High Adsorption Capacity for Nitrate Ions. <i>Inorganic Chemistry</i> , 2019, 58, 15710-15719.	4.0	13
5	Growth of $Li_2TiO_3$ Nanocrystals from LiCl and LiOH Fluxes. <i>Crystal Growth and Design</i> , 2019, 19, 1377-1383.	3.0	13
6	Hierarchical spheres of Mg-Al LDH for the removal of phosphate ions: effect of alumina polymorph as precursor. <i>CrystEngComm</i> , 2019, 21, 7211-7216.	2.6	7
7	Growth of {100}-faceted $NaFeTiO_4$ crystals with a tunable aspect ratio from a $NaCl$ - $Na_2SO_4$ binary flux. <i>CrystEngComm</i> , 2018, 20, 873-878.	2.6	7
8	Fabrication of Fluorapatite Nanocrystal-Activated Carbon Composite by the Atmospheric Pressure Plasma-Assisted Flux Method. <i>Crystal Growth and Design</i> , 2018, 18, 5763-5769.	3.0	6
9	Effects of Alkali Cations and Sulfate/Chloride Anions on the Flux Growth of {001}-Faceted $Li_2TiO_3$ Crystals. <i>Crystal Growth and Design</i> , 2017, 17, 1118-1124.	3.0	17
10	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. <i>AIP Advances</i> , 2016, 6, 055932.	1.3	11
11	Platy $KTiNbO_5$ as a Selective Sr Ion Adsorbent: Crystal Growth, Adsorption Experiments, and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11984-11992.	3.1	15
12	Exceptional Flux Growth and Chemical Transformation of Metastable Orthorhombic $LiMnO_2$ Cuboids into Hierarchically-Structured Porous $H_{1.6}Mn_{1.6}O_4$ Rods as Li Ion Sieves. <i>Crystal Growth and Design</i> , 2016, 16, 6178-6185.	3.0	17
13	Flux-boosted coating of idiomorphic $CuInS_2$ crystal layers on Mo-coated glass substrate. <i>CrystEngComm</i> , 2016, 18, 3612-3616.	2.6	8
14	Flux-Boosted Sulfide Crystal Growth: Growth of $CuInS_2$ Crystals by $NaCl$ - $InCl_3$ Evaporation. <i>Crystal Growth and Design</i> , 2016, 16, 1195-1199.	3.0	8
15	Flux-Assisted Fabrication of Vertically Aligned Layered Double Hydroxide Plates on in Situ Formed Alumina Particles. <i>Crystal Growth and Design</i> , 2015, 15, 732-736.	3.0	6
16	Modulation Effect of Interlayer Spacing on the Superconductivity of Electron-Doped FeSe-Based Intercalates. <i>Inorganic Chemistry</i> , 2015, 54, 3346-3351.	4.0	43
17	Unique Growth Manner of $Li_5La_3Ta_2O_{12}$ Crystals from Lithium Hydroxide Flux at Low Temperature. <i>Crystal Growth and Design</i> , 2015, 15, 4863-4868.	3.0	10
18	Emergence of magnetism and controlling factors of superconductivity in $Li/Na$ -ammonia cointercalated $FeS$ .		

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19	Superconductivity and phase instability of NH <sub>3</sub> -free Na-intercalated FeSe <sub>1-z</sub> S <sub>z</sub> . Nature Communications, 2014, 5, 4756.	12.8	76
20	Surface Treatment for Conductive 12CaO $\cdot$ 7Al <sub>2</sub> O <sub>3</sub> Electride Powder by Rapid Thermal Annealing Processing and Its Application to Ammonia Synthesis. ChemCatChem, 2014, 6, 1317-1323.	3.7	11
21	NH <sub>2</sub> <sup>-</sup> Dianion Entrapped in a Nanoporous 12CaO $\cdot$ 7Al <sub>2</sub> O <sub>3</sub> Crystal by Ammonothermal Treatment: Reaction Pathways, Dynamics, and Chemical Stability. Journal of the American Chemical Society, 2014, 136, 11698-11706.	13.7	34
22	Surface structure of yttrium-modified ceria catalysts and reaction pathways from ethanol to propene. Journal of Catalysis, 2014, 316, 112-120.	6.2	51
23	Ammonia decomposition by ruthenium nanoparticles loaded on inorganic electride C12A7:e <sup>-</sup> . Chemical Science, 2013, 4, 3124.	7.4	148
24	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
25	Ammonia synthesis using a stable electride as an electron donor and reversible hydrogen store. Nature Chemistry, 2012, 4, 934-940.	13.6	1,085
26	Ammonia synthesis over rhenium supported on mesoporous silica MCM-41. Microporous and Mesoporous Materials, 2011, 146, 184-189.	4.4	9
27	Effect of Pore Structure on the Nitridation of Mesoporous Silica with Ammonia. European Journal of Inorganic Chemistry, 2010, 2010, 2235-2243.	2.0	18
28	Fast and Almost Complete Nitridation of Mesoporous Silica MCM-41 with Ammonia in a Plug-Flow Reactor. Journal of the American Ceramic Society, 2010, 93, 104-110.	3.8	31
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	Rapid and Deep Nitridation of Silica MCM-41 without Loss of Hexagonal Pore Structure. Chemistry Letters, 2007, 36, 1416-1417.	1.3	12
31	Formation of alkali metal titanate nanocrystals using titanium alkoxide. Research on Chemical Intermediates, 0, , 1.	2.7	0