Akira Takahashi

List of Publications by Year
in descending order

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Version: 2024-02-01

40 papers	1,038 citations	535685 17 h-index	466096 32 g-index
41 all docs	41 docs citations	41 times ranked	1102 citing authors

#	Article	IF	Citations
1	Apparatus for ammonia removal in livestock farms based on copper hexacyanoferrate granules. Biosystems Engineering, 2022, 216, 98-107.	1.9	8
2	Ammonium removal and recovery from sewage water using column-system packed highly selective ammonium adsorbent. Environmental Pollution, 2021, 284, 117495.	3.7	8
3	Ammonium salt production in NH3-CO2-H2O system using a highly selective adsorbent, copper hexacyanoferrate. Environmental Pollution, 2021, 288, 117763.	3.7	8
4	Harvesting a Solid Fertilizer Directly from Fetid Air. ACS Sustainable Chemistry and Engineering, 2021, 9, 16865-16869.	3.2	6
5	Unique adsorption and desorption behaviour of ammonia gas at heating temperature using the Prussian blue analogue Zn3[Co(CN)6]2. Inorganica Chimica Acta, 2020, 501, 119273.	1.2	5
6	Trace Ammonia Removal from Air by Selective Adsorbents Reusable with Water. ACS Applied Materials & Interfaces, 2020, 12, 15115-15119.	4.0	27
7	Decontamination of very dilute Cs in seawater by a coagulationâ€“precipitation method using a nanoparticle slurry of copper hexacyanoferrate. Environmental Science: Water Research and Technology, 2019, 5, 1328-1338.	1.2	12
8	Pre-enrichment of radioactive cesium in muddy water separated into suspended and dissolved substances for trace analysis. Water Research, 2019, 154, 28-33.	5.3	3
9	Interpretation of the Role of Composition on the Inclusion Efficiency of Monovalent Cations into Cobalt Hexacyanoferrate. Chemistry - A European Journal, 2019, 25, 5950-5958.	1.7	6
10	One million cyclable blue/colourless electrochromic device using K₂Zn₃[Fe(CN)₆]₂ nanoparticles synthesized with a micromixer. RSC Advances, 2019, 9, 41083-41087.	1.7	5
11	Differences in NH3 gas adsorption behaviors of metal-hexacyanoferrate nanoparticles (M [FeII(CN)6]) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	5
12	High contrast gasochromism of wet processable thin film with chromic and catalytic nanoparticles. Journal of Materials Chemistry C, 2018, 6, 4760-4764.	2.7	9
13	Highly Sensitive and Exceptionally Wide Dynamic Range Detection of Ammonia Gas by Indium Hexacyanoferrate Nanoparticles Using FTIR Spectroscopy. Analytical Chemistry, 2018, 90, 4856-4862.	3.2	11
14	High-capacity and selective ammonium removal from water using sodium cobalt hexacyanoferrate. RSC Advances, 2018, 8, 34573-34581.	1.7	18
15	Adsorption ofÂng L^{â˜'1}-level arsenic by ZIF-8 nanoparticles: application to the monitoring of environmental water. RSC Advances, 2018, 8, 36360-36368.	1.7	7
16	Effects of the variation of metal substitution and electrolyte on the electrochemical reaction of metal hexacyanoferrates. RSC Advances, 2018, 8, 37356-37364.	1.7	15
17	Unveiling Cs-adsorption mechanism of Prussian blue analogs: Cs⁺-percolation via vacancies to complete dehydrated state. RSC Advances, 2018, 8, 34808-34816.	1.7	55
18	High performance sorption and desorption behaviours at high working temperatures of ammonia gas in a cobalt-substituted Prussian blue analogue. Chemical Communications, 2018, 54, 11961-11964.	2.2	22

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19	Trace Alcohol Adsorption by Metal Hexacyanocobaltate Nanoparticles and the Adsorption Mechanism. Journal of Physical Chemistry C, 2018, 122, 11918-11925.	1.5	10
20	Cobalt hexacyanoferrate nanoparticles for wet-processed brownâ€“bleached electrochromic devices with hybridization of high-spin/low-spin phases. Journal of Materials Chemistry C, 2017, 5, 8921-8926.	2.7	20
21	Radioactive cesium decontamination technology for ash. Synthesiology, 2016, 9, 139-154.	0.2	2
22	Prospective Application of Copper Hexacyanoferrate for Capturing Dissolved Ammonia. Industrial & Engineering Chemistry Research, 2016, 55, 6708-6715.	1.8	25
23	Historical Pigment Exhibiting Ammonia Gas Capture beyond Standard Adsorbents with Adsorption Sites of Two Kinds. Journal of the American Chemical Society, 2016, 138, 6376-6379.	6.6	126
24	Water processable Prussian blueâ€“polyaniline:polystyrene sulfonate nanocomposite (PBâ€“PANI:PSS) for multi-color electrochromic applications. Journal of Materials Chemistry C, 2016, 4, 10293-10300.	2.7	43
25	Decomposition of Iron Hexacyanoferrate Microcapsule Beads Using Superheated Steam. Chemistry Letters, 2016, 45, 670-672.	0.7	2
26	Comparative study of the factors associated with the application of metal hexacyanoferrates for environmental Cs decontamination. Chemical Engineering Journal, 2016, 283, 1322-1328.	6.6	76
27	Application of Prussian blue nanoparticles for the radioactive Cs decontamination in Fukushima region. Journal of Environmental Radioactivity, 2016, 151, 233-237.	0.9	49
28	Assessment of the measures for the extraction or fixation of radiocesium in soil. Geoderma, 2016, 267, 169-173.	2.3	12
29	Improved adsorption properties of granulated copper hexacyanoferrate with multi-scale porous networks. RSC Advances, 2016, 6, 16234-16238.	1.7	31
30	Development of a copper-substituted, Prussian blue-impregnated, nonwoven cartridge filter to rapidly measure radiocesium concentration in seawater. Journal of Nuclear Science and Technology, 2016, 53, 1243-1250.	0.7	16
31	Radioactive cesium removal from ash-washing solution with high pH and high K+-concentration using potassium zinc hexacyanoferrate. Chemical Engineering Research and Design, 2016, 109, 513-518.	2.7	26
32	Technology for radioactive cesium decontamination from ash. Synthesiology, 2016, 9, 139-153.	0.2	4
33	Rapid quantification of radiocesium dissolved in water by using nonwoven fabric cartridge filters impregnated with potassium zinc ferrocyanide. Journal of Nuclear Science and Technology, 2015, 52, 792-800.	0.7	42
34	Simultaneous Enhancement of Cs-Adsorption and Magnetic Properties of Prussian Blue by Thermal Partial Oxidation. Bulletin of the Chemical Society of Japan, 2015, 88, 69-73.	2.0	10
35	Sequential Structural Control of Open-Framework Nanoparticles Both in Dispersion and in Film for Electrochemical Performance Tuning. Bulletin of the Chemical Society of Japan, 2015, 88, 1561-1566.	2.0	3
36	Efficient synthesis of size-controlled open-framework nanoparticles fabricated with a micro-mixer: route to the improvement of Cs adsorption performance. Green Chemistry, 2015, 17, 4228-4233.	4.6	37

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37	Accelerated coloration of electrochromic device with the counter electrode of nanoparticulate Prussian blue-type complexes. Electrochimica Acta, 2015, 163, 288-295.	2.6	41
38	Variation in available cesium concentration with parameters during temperature induced extraction of cesium from soil. Journal of Environmental Radioactivity, 2015, 140, 78-83.	0.9	30
39	Proton-exchange mechanism of specific Cs+ adsorption via lattice defect sites of Prussian blue filled with coordination and crystallization water molecules. Dalton Transactions, 2013, 42, 16049.	1.6	198
40	A Molecular Superconductor Having a Solid-Crossing Column Structure, Me4N[Ni(dmit)2]2. Molecular Crystals and Liquid Crystals, 1996, 285, 125-130.	0.3	5