

Tatsuo Kimura

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4877399/tatsuo-kimura-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

3,140
citations

33
h-index

52
g-index

107
ext. papers

3,372
ext. citations

5.9
avg, IF

5.57
L-index

#	Paper	IF	Citations
104	Tailored design of functional nanoporous carbon materials toward fuel cell applications. <i>Nano Today</i> , 2014 , 9, 305-323	17.9	230
103	Adsorption of Taxol into Ordered Mesoporous Silicas with Various Pore Diameters. <i>Chemistry of Materials</i> , 1999 , 11, 1110-1119	9.6	162
102	Nanoarchitected Structure and Surface Biofunctionality of Mesoporous Silica Nanoparticles. <i>Advanced Materials</i> , 2020 , 32, e1907035	24	153
101	Electrochemical synthesis of mesoporous gold films toward mesospace-stimulated optical properties. <i>Nature Communications</i> , 2015 , 6, 6608	17.4	151
100	Synthesis and Characterization of Lamellar and Hexagonal Mesostructured Aluminophosphates Using Alkyltrimethylammonium Cations as Structure-Directing Agents. <i>Chemistry of Materials</i> , 1999 , 11, 508-518	9.6	94
99	Synthesis of Novel Mesoporous Aluminum Organophosphonate by Using Organically Bridged Diphosphonic Acid. <i>Chemistry of Materials</i> , 2003 , 15, 3742-3744	9.6	91
98	Formation of Novel Ordered Mesoporous Silicas with Square Channels and Their Direct Observation by Transmission Electron Microscopy. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3855-3859	16.4	89
97	Synthesis of Mesostructured and Mesoporous Aluminum Organophosphonates Prepared by Using Diphosphonic Acids with Alkylene Groups. <i>Chemistry of Materials</i> , 2005 , 17, 337-344	9.6	87
96	Surfactant-templated mesoporous aluminophosphate-based materials and the recent progress. <i>Microporous and Mesoporous Materials</i> , 2005 , 77, 97-107	5.3	87
95	Organic Modification of FSM-Type Mesoporous Silicas Derived from Kanemite by Silylation. <i>Langmuir</i> , 1999 , 15, 2794-2798	4	80
94	Synthesis of mesoporous aluminophosphates and their adsorption properties. <i>Microporous and Mesoporous Materials</i> , 1998 , 22, 115-126	5.3	79
93	Oligomeric Surfactant and Triblock Copolymer Syntheses of Aluminum Organophosphonates with Ordered Mesoporous Structures. <i>Chemistry of Materials</i> , 2005 , 17, 5521-5528	9.6	78
92	Synthesis of mesoporous aluminophosphates using surfactants with long alkyl chain lengths and triisopropylbenzene as a solubilizing agent. <i>Chemical Communications</i> , 1998 , 559-560	5.8	73
91	Esterification of the Silanol Groups in the Mesoporous Silica Derived from Kanemite. <i>Journal of Porous Materials</i> , 1998 , 5, 127-132	2.4	61
90	Ordered Mesoporous Silica Derived from Layered Silicates. <i>Advanced Functional Materials</i> , 2009 , 19, 511-528	5.28	59
89	Triblock copolymer templated semi-crystalline mesoporous titania films containing emulsion-induced macropores. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1894		50
88	Asymmetric block copolymers for supramolecular templating of inorganic nanospace materials. <i>Small</i> , 2015 , 11, 1992-2002	11	49

87	Connectivity of PS-b-PEO templated spherical pores in titanium oxide films. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12529-35	3.6	45
86	Rapid fabrication of mesoporous titania films with controlled macroporosity to improve photocatalytic property. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 1486-93	4.5	43
85	Amino acid containing amorphous calcium phosphates and the rapid transformation into apatite. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4906		42
84	General synthesis of fibrous mesoporous metal oxides in polycarbonate membrane. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5294		41
83	Temperature-controlled and aerosol-assisted synthesis of aluminium organophosphonate spherical particles with uniform mesopores. <i>Chemical Communications</i> , 2009 , 4938-40	5.8	39
82	Advanced Nanoporous MaterialBased QCM Devices: A New Horizon of Interfacial Mass Sensing Technology. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900849	4.6	38
81	Formation of mesoporous oxide fibers in polycarbonate confined spaces. <i>Chemical Communications</i> , 2009 , 5689-91	5.8	37
80	Effective Adsorption of Chlorophyll a by FSM-Type Mesoporous Silica Modified with 1,4-Butanediol. <i>Langmuir</i> , 2000 , 16, 7106-7108	4	37
79	Predictable Shrinkage during the Precise Design of Porous Materials and Nanomaterials. <i>Chemistry of Materials</i> , 2015 , 27, 6918-6928	9.6	36
78	Dye-sensitized biosystem sensing using macroporous semiconducting metal oxide films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5738		36
77	Synthesis of a Hexagonal Mesostructured Aluminophosphate. <i>Chemistry Letters</i> , 1997 , 26, 983-984	1.7	36
76	Self-assembly of mesoporous silicas hollow microspheres via food grade emulsifiers for delivery systems. <i>Microporous and Mesoporous Materials</i> , 2010 , 128, 187-193	5.3	35
75	Electron microscopic study on aerosol-assisted synthesis of aluminum organophosphonates using flexible colloidal PS-b-PEO templates. <i>Langmuir</i> , 2012 , 28, 12901-8	4	34
74	Highly photoactive porous anatase films obtained by deformation of 3D mesostructures. <i>Chemistry - A European Journal</i> , 2011 , 17, 4005-11	4.8	34
73	Water adsorption behavior of ordered mesoporous silicas modified with an organosilane composed of hydrophobic alkyl chain and hydrophilic polyethylene oxide groups. <i>Microporous and Mesoporous Materials</i> , 2006 , 95, 213-219	5.3	34
72	Lamellar Hexadecyltrimethylammonium Silicates Derived from Kanemite. <i>Langmuir</i> , 2000 , 16, 7624-7628		33
71	Towards vaporized molecular discrimination: a quartz crystal microbalance (QCM) sensor system using cobalt-containing mesoporous graphitic carbon. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 3238-44	4.5	32
70	Mesoporous Bimetallic RhCu Alloy Nanospheres Using a Sophisticated Soft-Templating Strategy. <i>Chemistry of Materials</i> , 2018 , 30, 428-435	9.6	31

69	Aerosol-assisted synthesis of mesoporous organosilica microspheres with controlled organic contents. <i>Science and Technology of Advanced Materials</i> , 2009 , 10, 025005	7.1	29
68	Synthesis of Thermally Stable and 2-D Hexagonal Super-Microporous Silica from Hydrated Sodium Disilicate. <i>Chemistry of Materials</i> , 2005 , 17, 6416-6421	9.6	28
67	Novel block copolymer templates for tuning mesopore connectivity in cage-type mesoporous silica films. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20008		26
66	Condensation- and crystallinity-controlled synthesis of titanium oxide films with assessed mesopores. <i>Chemistry - A European Journal</i> , 2010 , 16, 12069-73	4.8	26
65	A new family of nonsiliceous porous hybrids from bisphosphonates. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 2461-70	1.3	22
64	Synthesis of ordered mesoporous aluminium alkylendiphosphonates with integrated inorganic-organic hybrid frameworks. <i>Journal of Materials Chemistry</i> , 2007 , 17, 559-566		21
63	Transformation of Layered Docosyltrimethyl- and Docosyltriethylammonium Silicates Derived from Kanemite into Precursors for Ordered Mesoporous Silicas. <i>Langmuir</i> , 2002 , 18, 9574-9577	4	21
62	Synthesis of lamellar mesostructured calcium phosphates using n-alkylamines as structure-directing agents in alcohol/water mixed solvent systems. <i>Journal of Materials Science</i> , 2008 , 43, 4198-4207	4.3	20
61	Synthesis of hexagonal mesostructured aluminophosphate-based materials combined with organically bridged silsesquioxanes. <i>Journal of Materials Chemistry</i> , 2003 , 13, 3072		20
60	Direct Silylation of a Mesostructured Precursor for Novel Mesoporous Silica KSW-2. <i>Langmuir</i> , 2002 , 18, 8102-8107	4	20
59	Shape selective alkylation of biphenyl with propene on SAPO-11 catalysts. <i>Applied Catalysis A: General</i> , 1996 , 136, 19-28	5.1	20
58	Simple removal of oligomeric surfactants and triblock copolymers from mesostructured precursors of ordered mesoporous aluminum organophosphonates. <i>Microporous and Mesoporous Materials</i> , 2007 , 101, 207-213	5.3	18
57	Design of molecularly ordered framework of mesoporous silica with squared one-dimensional channels. <i>Journal of the American Chemical Society</i> , 2008 , 130, 201-9	16.4	18
56	Synthesis of Al-containing mesoporous silica (KSW-2) with semi-squared channels by incorporation of Al into the framework of kanemite. <i>Journal of Materials Chemistry</i> , 2003 , 13, 883-887		18
55	Mesostructural control of non-silica-based hybrid mesoporous film composed of aluminium ethylenediphosphonate using triblock copolymer and their TEM observation. <i>New Journal of Chemistry</i> , 2007 , 31, 1488	3.6	17
54	Evaporation-induced Self-assembly Process Controlled for Obtaining Highly Ordered Mesoporous Materials with Demanded Morphologies. <i>Chemical Record</i> , 2016 , 16, 445-57	6.6	16
53	Trace-level gravimetric detection promoted by surface interactions of mesoporous materials with chemical vapors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8196	13	16
52	Phenol resin carbonized films with anisotropic shrinkage driven ordered mesoporous structures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15135	13	16

51	Self-standing mesoporous membranes toward highly selective molecular transportation. <i>Chemical Communications</i> , 2013 , 49, 11424-6	5.8	16
50	Colloidal templating fabrication of aluminum-organophosphonate films using high molecular weight PS-b-PEO. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 3236-42	4.5	16
49	Templating route for mesostructured calcium phosphates with carboxylic acid- and amine-type surfactants. <i>Langmuir</i> , 2008 , 24, 13113-20	4	16
48	Environmental friendly rapid mass production synthetic process of highly ordered nanometer sized mesoporous silica using a combination of acidBase and evaporation approach. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 370-377	5.3	16
47	Effective mesopore tuning using aromatic compounds in the aerosol-assisted system of aluminium organophosphonate spherical particles. <i>Dalton Transactions</i> , 2010 , 39, 5139-44	4.3	15
46	Silica-based mesoporous materials derived from Ti containing layered polysilicate kanemite. <i>Microporous and Mesoporous Materials</i> , 2006 , 95, 146-153	5.3	15
45	Influence of the Kind of Layered Disodium Disilicates on the Formation of SilicaOrganic Mesostructured Materials. <i>Chemistry of Materials</i> , 2004 , 16, 3224-3230	9.6	15
44	Silica-Based Mesostructured Materials Induced by Surfactant Assemblies in the Two-Dimensionally Limited Space of a Layered Polysilicate Kanemite. <i>Bulletin of the Chemical Society of Japan</i> , 2004 , 77, 585-590	5.1	15
43	Mesopore Connectivity Improving Aerosol-Assisted Synthesis of Mesoporous Alumina Powders with High Surface Area. <i>Langmuir</i> , 2018 , 34, 13781-13787	4	15
42	Macroporous oxide platforms templated by non-close-packed spherical copolymer aggregates. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 423-30	4.8	14
41	General information to obtain spherical particles with ordered mesoporous structures. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 160-7	4.5	13
40	Lamellar Mesostructured Aluminum Organophosphonate with Unique Crystalline Framework. <i>Chemistry Letters</i> , 2009 , 38, 916-917	1.7	13
39	Aerosol-assisted Rapid Fabrication of Well-dispersed and Highly Doped Titanium-containing Mesoporous Silica Microspheres. <i>Chemistry Letters</i> , 2008 , 37, 892-893	1.7	13
38	Synthesis of Thermally Stable Hexagonal Mesostructured Aluminophosphate-based Materials Modified with Organoalkoxysilanes. <i>Chemistry Letters</i> , 2002 , 31, 770-771	1.7	13
37	Immobilization of Photosynthetic Pigments into Silica-Surfactant Nanocomposite Films. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 19, 543-547	2.3	13
36	Ligand-assisted fabrication of small mesopores in semi-crystalline titanium oxide films for high loading of Ru(II) dyes. <i>Langmuir</i> , 2011 , 27, 11436-43	4	12
35	Rapid micropatterning of mesoporous silica film by site-selective low-energy electron beam irradiation. <i>Langmuir</i> , 2008 , 24, 11141-6	4	12
34	Surface Modification of Ordered Mesoporous Silica with an Organosilane Containing Polyethylene Oxide Groups to Retain the Hydrophilic Nature. <i>Chemistry Letters</i> , 2003 , 32, 188-189	1.7	11

33	Water adsorption properties controlled by coating/filling ordered mesoporous silica inside cellulose membranes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15056-61	3.6	10
32	Molecular Design of Bisphosphonates To Adjust Their Reactivity toward Metal Sources for the Surfactant-Assisted Synthesis of Mesoporous Films. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13459-13463	16.4	10
31	Intercalation of poly(oxyethylene) alkyl ether into a layered silicate kanemite. <i>Langmuir</i> , 2007 , 23, 10765-10771	4.7	10
30	Formation of Mesoporous Silica from a Layered Polysilicate Makatite. <i>Chemistry Letters</i> , 2007 , 36, 444-445	1.7	10
29	Solubility and Crystallization-controlled Synthesis of Lamellar Mesostructured Calcium Phosphate in the Ethanol/Water System. <i>Chemistry Letters</i> , 2006 , 35, 948-949	1.7	10
28	SYNTHESIS OF A LAMELLAR MESOSTRUCTURED ALUMINOPHOSPHATE. <i>Phosphorus Research Bulletin</i> , 1996 , 6, 205-208	0.3	10
27	Analytical Understanding of the Materials Design with Well-Described Shrinkages on Multiscale. <i>Chemistry - A European Journal</i> , 2018 , 24, 6886-6904	4.8	10
26	In situ observation of the evaporation-induced self-assembling process of PS-b-PEO diblock copolymers for the fabrication of titania films by confocal laser scanning microscopy. <i>Chemical Communications</i> , 2015 , 51, 1230-3	5.8	9
25	Macrostructure-dependent photocatalytic property of high-surface-area porous titania films. <i>APL Materials</i> , 2014 , 2, 113301	5.7	9
24	Properties of metal species in square-shape mesopores of KSW-2-based silica. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3859		9
23	The rational synthesis of aerosol-assisted alumina powders having uniform mesopores and highly accessible surfaces. <i>New Journal of Chemistry</i> , 2019 , 43, 7269-7274	3.6	8
22	Unique surface property of surfactant-assisted mesoporous calcium phosphate. <i>Microporous and Mesoporous Materials</i> , 2011 , 141, 56-60	5.3	8
21	Artificial reticular structure by continuous titanium oxide frameworks. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10688	13	7
20	Understanding of NO _x storage property of impregnated Ba species after crystallization of mesoporous alumina powders. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122791	12.8	7
19	An Effective Strategy to Obtain Highly Porous Alumina Powders Having Robust and Designable Extra-Large Pores. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 1859-1866	5.1	5
18	Further Understanding of the Reactivity Control of Bisphosphonates to a Metal Source for Fabricating Highly Ordered Mesoporous Films. <i>Chemistry - A European Journal</i> , 2019 , 25, 5971-5977	4.8	5
17	Highly porous alumina powders prepared with the self-assembly of an asymmetric PS-b-PEO diblock copolymer. <i>Chemical Communications</i> , 2019 , 55, 10003-10006	5.8	5
16	Formation of Novel Ordered Mesoporous Silicas with Square Channels and Their Direct Observation by Transmission Electron Microscopy. <i>Angewandte Chemie</i> , 2000 , 112, 4013-4017	3.6	5

15	Relationship between penta-coordinated Al ³⁺ sites in the Al ₂ O ₃ supports and CH ₄ combustion activity of Pd/Al ₂ O ₃ catalysts. <i>Catalysis Science and Technology</i> , 2021 , 11, 2374-2378	5.5	5
14	Molecular Design of Bisphosphonates To Adjust Their Reactivity toward Metal Sources for the Surfactant-Assisted Synthesis of Mesoporous Films. <i>Angewandte Chemie</i> , 2017 , 129, 13644-13648	3.6	4
13	Understanding of the formation of mesostructured alkylammonium-alkaline earth metal phosphates composed of ionic frameworks. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 627-33 ¹⁻³	1.3	4
12	Synthesis of a lamellar mesostructured calcium phosphate using hexadecylamine as a structure-directing agent in the ethanol/water solvent system. <i>Studies in Surface Science and Catalysis</i> , 2007 , 165, 253-256	1.8	4
11	Water Sorption Property Controlled by Nanoscale Pore Connectivity of Large-Sized Cage-Type Mesopores. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 9307-9310	1.3	3
10	Structural design in the silicate framework of ordered mesoporous silica derived from kanemite. <i>Studies in Surface Science and Catalysis</i> , 2007 , 1740-1747	1.8	3
9	Toward compositional design of reticular type porous films by mixing and coating titania-based frameworks with silica. <i>APL Materials</i> , 2015 , 3, 126101	5.7	2
8	Synthesis of transparent mesoporous aluminum organophosphonate films through triblock copolymer templating. <i>Studies in Surface Science and Catalysis</i> , 2007 , 165, 579-582	1.8	2
7	Enlargement of mesopores of 2-D orthorhombic KSW-2 type silica by the addition of poly(oxyethylene) alkyl ether during the mesostructural formation. <i>Solid State Sciences</i> , 2011 , 13, 714-720 ^{2,4}	2.4	1
6	Adsorption Property of Dye Molecule over Semi-Crystalline Mesoporous Titania Films. <i>Key Engineering Materials</i> , 2008 , 388, 145-148	0.4	1
5	An opportunity for utilizing earth-abundant metals through the mesostructural design of metal phosphate-based materials. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25528-25547	13	1
4	Enhanced β phase crystallinity of AlO frameworks at the concave surface of PS-PEO templated spherical pores. <i>Dalton Transactions</i> , 2021 , 50, 7191-7197	4.3	1
3	A Robust Mesoporous Al O -Based Nanocomposite Catalyst for Abundant NO Storage with Rational Design of Pt and Ba Species. <i>Chemistry - A European Journal</i> , 2021 , 27, 6706-6712	4.8	1
2	Surfactant-Assisted Mesostructural Variation by the Molecular Structure of Frameworks. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 3078-3083	1.3	
1	Challenge towards synthesis of non-silica-based hybrid mesoporous materials. <i>Synthesiology</i> , 2019 , 11, 111-123	0.1	