

Tatsuo Kimura

List of Publications by Year in Descending Order

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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	Enhanced γ -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
103	A Robust Mesoporous Al ₂ O ₃ -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
102	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
101	Surfactant-Assisted Mesostructural Variation by the Molecular Structure of Frameworks. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 3078-3083	1.3	
100	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
99	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
98	Nanoarchitected Structure and Surface Biofunctionality of Mesoporous Silica Nanoparticles. <i>Advanced Materials</i> , 2020 , 32, e1907035	24	153
97	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
96	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
95	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
94	Highly porous γ -alumina powders prepared with the self-assembly of an asymmetric PS- <i>b</i> -PEO diblock copolymer. <i>Chemical Communications</i> , 2019 , 55, 10003-10006	5.8	5
93	Advanced Nanoporous Material-Based QCM Devices: A New Horizon of Interfacial Mass Sensing Technology. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900849	4.6	38
92	Challenge towards synthesis of non-silica-based hybrid mesoporous materials. <i>Synthesiology</i> , 2019 , 11, 111-123	0.1	
91	Mesoporous Bimetallic RhCu Alloy Nanospheres Using a Sophisticated Soft-Templating Strategy. <i>Chemistry of Materials</i> , 2018 , 30, 428-435	9.6	31
90	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
89	Mesopore Connectivity Improving Aerosol-Assisted Synthesis of Mesoporous Alumina Powders with High Surface Area. <i>Langmuir</i> , 2018 , 34, 13781-13787	4	15
88	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

87	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
86	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
85	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
84	Electrochemical synthesis of mesoporous gold films toward mesospace-stimulated optical properties. <i>Nature Communications</i> , 2015 , 6, 6608	17.4	151
83	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
82	Predictable Shrinkage during the Precise Design of Porous Materials and Nanomaterials. <i>Chemistry of Materials</i> , 2015 , 27, 6918-6928	9.6	36
81	Asymmetric block copolymers for supramolecular templating of inorganic nanospace materials. <i>Small</i> , 2015 , 11, 1992-2002	11	49
80	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
79	Macrostructure-dependent photocatalytic property of high-surface-area porous titania films. <i>APL Materials</i> , 2014 , 2, 113301	5.7	9
78	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
77	Artificial reticular structure by continuous titanium oxide frameworks. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10688	13	7
76	Tailored design of functional nanoporous carbon materials toward fuel cell applications. <i>Nano Today</i> , 2014 , 9, 305-323	17.9	230
75	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
74	Phenol resin carbonized films with anisotropic shrinkage driven ordered mesoporous structures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15135	13	16
73	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
72	Self-standing mesoporous membranes toward highly selective molecular transportation. <i>Chemical Communications</i> , 2013 , 49, 11424-6	5.8	16
71	General information to obtain spherical particles with ordered mesoporous structures. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 160-7	4.5	13
70	A new family of nonsiliceous porous hybrids from bisphosphonates. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 2461-70	1.3	22

69	Macroporous oxide platforms templated by non-close-packed spherical copolymer aggregates. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 423-30	4.8	14
68	Novel block copolymer templates for tuning mesopore connectivity in cage-type mesoporous silica films. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20008		26
67	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
66	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
65	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	3.4	1
64	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
63	Highly photoactive porous anatase films obtained by deformation of 3D mesostructures. <i>Chemistry - A European Journal</i> , 2011 , 17, 4005-11	4.8	34
62	Dye-sensitized biosystem sensing using macroporous semiconducting metal oxide films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5738		36
61	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
60	Unique surface property of surfactant-assisted mesoporous calcium phosphate. <i>Microporous and Mesoporous Materials</i> , 2011 , 141, 56-60	5.3	8
59	General synthesis of fibrous mesoporous metal oxides in polycarbonate membrane. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5294		41
58	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
57	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
56	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
55	Ordered Mesoporous Silica Derived from Layered Silicates. <i>Advanced Functional Materials</i> , 2009 , 19, 5115-27	5.2	59
54	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
53	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
52	Triblock copolymer templated semi-crystalline mesoporous titania films containing emulsion-induced macropores. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1894		50

51	Amino acid containing amorphous calcium phosphates and the rapid transformation into apatite. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4906		42
50	Temperature-controlled and aerosol-assisted synthesis of aluminium organophosphonate spherical particles with uniform mesopores. <i>Chemical Communications</i> , 2009 , 4938-40	5.8	39
49	Properties of metal species in square-shape mesopores of KSW-2-based silica. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3859		9
48	Formation of mesoporous oxide fibers in polycarbonate confined spaces. <i>Chemical Communications</i> , 2009 , 5689-91	5.8	37
47	Lamellar Mesostructured Aluminum Organophosphonate with Unique Crystalline Framework. <i>Chemistry Letters</i> , 2009 , 38, 916-917	1.7	13
46	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		4
45	Rapid micropatterning of mesoporous silica film by site-selective low-energy electron beam irradiation. <i>Langmuir</i> , 2008 , 24, 11141-6	4	12
44	Templating route for mesostructured calcium phosphates with carboxylic acid- and amine-type surfactants. <i>Langmuir</i> , 2008 , 24, 13113-20	4	16
43	Adsorption Property of Dye Molecule over Semi-Crystalline Mesoporous Titania Films. <i>Key Engineering Materials</i> , 2008 , 388, 145-148	0.4	1
42	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
41	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
40	Environmental friendly rapid mass production synthetic process of highly ordered nanometer sized mesoporous silica using a combination of acid/base and evaporation approach. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 370-377	5.3	16
39	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
38	Synthesis of ordered mesoporous aluminium alkylenediphosphonates with integrated inorganic/organic hybrid frameworks. <i>Journal of Materials Chemistry</i> , 2007 , 17, 559-566		21
37	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
36	Intercalation of poly(oxyethylene) alkyl ether into a layered silicate kanemite. <i>Langmuir</i> , 2007 , 23, 10765-71	4.71	10
35	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
34	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

33	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
32	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
31	Formation of Mesoporous Silica from a Layered Polysilicate Makatite. <i>Chemistry Letters</i> , 2007 , 36, 444-445	4.7	10
30	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
29	Silica-based mesoporous materials derived from Ti containing layered polysilicate kanemite. <i>Microporous and Mesoporous Materials</i> , 2006 , 95, 146-153	5.3	15
28	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
27	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
26	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
25	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
24	Surfactant-templated mesoporous aluminophosphate-based materials and the recent progress. <i>Microporous and Mesoporous Materials</i> , 2005 , 77, 97-107	5.3	87
23	Influence of the Kind of Layered Disodium Disilicates on the Formation of Silica/Organic Mesostructured Materials. <i>Chemistry of Materials</i> , 2004 , 16, 3224-3230	9.6	15
22	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
21	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
20	Synthesis of Novel Mesoporous Aluminum Organophosphonate by Using Organically Bridged Diphosphonic Acid. <i>Chemistry of Materials</i> , 2003 , 15, 3742-3744	9.6	91
19	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
18	Synthesis of hexagonal mesostructured aluminophosphate-based materials combined with organically bridged silsesquioxanes. <i>Journal of Materials Chemistry</i> , 2003 , 13, 3072		20
17	Synthesis of Thermally Stable Hexagonal Mesostructured Aluminophosphate-based Materials Modified with Organoalkoxysilanes. <i>Chemistry Letters</i> , 2002 , 31, 770-771	1.7	13
16	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

15	Direct Silylation of a Mesostructured Precursor for Novel Mesoporous Silica KSW-2. <i>Langmuir</i> , 2002 , 18, 8102-8107	4	20
14	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
13	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
12	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
11	Effective Adsorption of Chlorophyll a by FSM-Type Mesoporous Silica Modified with 1,4-Butanediol. <i>Langmuir</i> , 2000 , 16, 7106-7108	4	37
10	Lamellar Hexadecyltrimethylammonium Silicates Derived from Kanemite. <i>Langmuir</i> , 2000 , 16, 7624-7628	4	33
9	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
8	Adsorption of Taxol into Ordered Mesoporous Silicas with Various Pore Diameters. <i>Chemistry of Materials</i> , 1999 , 11, 1110-1119	9.6	162
7	Organic Modification of FSM-Type Mesoporous Silicas Derived from Kanemite by Silylation. <i>Langmuir</i> , 1999 , 15, 2794-2798	4	80
6	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
5	Synthesis of mesoporous aluminophosphates and their adsorption properties. <i>Microporous and Mesoporous Materials</i> , 1998 , 22, 115-126	5.3	79
4	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
3	Synthesis of a Hexagonal Mesostructured Aluminophosphate. <i>Chemistry Letters</i> , 1997 , 26, 983-984	1.7	36
2	SYNTHESIS OF A LAMELLAR MESOSTRUCTURED ALUMINOPHOSPHATE. <i>Phosphorus Research Bulletin</i> , 1996 , 6, 205-208	0.3	10
1	Shape selective alkylation of biphenyl with propene on SAPO-11 catalysts. <i>Applied Catalysis A: General</i> , 1996 , 136, 19-28	5.1	20