

Takahiro Ohkubo

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of mesoporous hematite (γ -Fe ₂ O ₃) nanoparticles and their photocatalytic activity. <i>Advanced Powder Technology</i> , 2013, 24, 160-167.	4.1	256
2	Control of Viscoelasticity Using Redox Reaction. <i>Journal of the American Chemical Society</i> , 2004, 126, 12282-12283.	13.7	255
3	Direct Synthesis of Mesoporous Titania Particles Having a Crystalline Wall. <i>Journal of the American Chemical Society</i> , 2005, 127, 16396-16397.	13.7	213
4	Preparation of Highly Dispersed Core/Shell-type Titania Nanocapsules Containing a Single Ag Nanoparticle. <i>Journal of the American Chemical Society</i> , 2006, 128, 4944-4945.	13.7	200
5	Photoinduced Reversible Change of Fluid Viscosity. <i>Journal of the American Chemical Society</i> , 2005, 127, 13454-13455.	13.7	166
6	Adsorption Properties of Templated Mesoporous Carbon (CMK-1) for Nitrogen and Supercritical Methane Experiment and GCMC Simulation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6523-6528.	2.6	107
7	Exfoliated graphene sheets decorated with metal/metal oxide nanoparticles: Simple preparation from cation exchanged graphite oxide. <i>Carbon</i> , 2011, 49, 1118-1125.	10.3	104
8	Restricted Hydration Structures of Rb and Br Ions Confined in Slit-Shaped Carbon Nanospace. <i>Journal of the American Chemical Society</i> , 2002, 124, 11860-11861.	13.7	96
9	Adsorption and micellization behavior of novel gluconamide-type gemini surfactants. <i>Journal of Colloid and Interface Science</i> , 2008, 318, 440-448.	9.4	85
10	Adsorption and aggregation properties of amino acid-based N-alkyl cysteine monomeric and -dialkyl cysteine gemini surfactants. <i>Journal of Colloid and Interface Science</i> , 2007, 308, 466-473.	9.4	82
11	Cluster-Associated Filling of Water in Hydrophobic Carbon Micropores. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14043-14048.	2.6	78
12	Synthesis of Microtubes with a Surface of "House of Cards" Structure via Needlelike Particles and Control of Their Pore Size. <i>Langmuir</i> , 2005, 21, 3659-3663.	3.5	75
13	Pore-Width-Dependent Ordering of C ₂ H ₅ OH Molecules Confined in Graphitic Slit Nanospaces. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1859-1863.	2.6	74
14	Preparation and Formation Mechanism of Mesoporous Titania Particles Having Crystalline Wall. <i>Chemistry of Materials</i> , 2006, 18, 2256-2260.	6.7	64
15	RBM band shift-evidenced dispersion mechanism of single-wall carbon nanotube bundles with NaDDBS. <i>Journal of Colloid and Interface Science</i> , 2007, 308, 276-284.	9.4	55
16	Hydrogen-bond change-associated gas adsorption in inorganic-organic hybrid microporous crystals. <i>Applied Surface Science</i> , 2002, 196, 81-88.	6.1	54
17	Adsorption and Aggregation Properties of Heterogemini Surfactants Containing a Quaternary Ammonium Salt and a Sugar Moiety. <i>Langmuir</i> , 2006, 22, 9187-9191.	3.5	50
18	Polymerizable Cationic Gemini Surfactant. <i>Langmuir</i> , 2006, 22, 8293-8297.	3.5	50

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19	Photo-isomerization of spiropyran-modified cationic surfactants. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 1027-1030.	9.4	44
20	Unprecedented Reversible Redox Process in the ZnMFI- H^{2+} System Involving Formation of Stable Atomic Zn ⁰ . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7719-7723.	13.8	44
21	An Important Factor in CH ₄ Activation by Zn Ion in Comparison with Mg Ion in MFI: The Superior Electron-Accepting Nature of Zn ²⁺ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 15234-15241.	3.1	37
22	Potential for C-H Activation in CH ₄ Utilizing a CuMFI-Type Zeolite as a Catalyst. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7213-7222.	3.1	32
23	Organized structures of methanol in carbon nanospaces at 303 K studies with in situ X-ray diffraction. <i>Chemical Physics Letters</i> , 1999, 312, 191-195.	2.6	30
24	Success in Making Zn ⁺ from Atomic Zn ⁰ Encapsulated in an MFI-Type Zeolite with UV Light Irradiation. <i>Journal of the American Chemical Society</i> , 2013, 135, 18481-18489.	13.7	30
25	Control of Particle Alignment in Water by an Alternating Electric Field. <i>Langmuir</i> , 2004, 20, 7021-7026.	3.5	27
26	Synthesis of highly-ordered mesoporous silica particles using mixed cationic and anionic surfactants as templates. <i>Journal of Colloid and Interface Science</i> , 2007, 312, 42-46.	9.4	26
27	Three-Dimensional Arrangements of Polystyrene Latex Particles with a Hyperbolic Quadruple Electrode System. <i>Langmuir</i> , 2004, 20, 5046-5051.	3.5	25
28	Cationic Surfactant Changes the Morphology of DNA Molecules. <i>Langmuir</i> , 2007, 23, 345-347.	3.5	25
29	Existence of dual species composed of Cu ⁺ in CuMFI being bridged by C ₂ H ₂ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6455.	2.8	25
30	Synthesis of an unexpected [Zn ₂] ²⁺ species utilizing an MFI-type zeolite as a nano-reaction pot and its manipulation with light and heat. <i>Dalton Transactions</i> , 2015, 44, 10038-10047.	3.3	25
31	Room-Temperature Activation of the C-H Bond in Methane over Terminal Zn ^{II} -Oxyl Species in an MFI Zeolite: A Combined Spectroscopic and Computational Study of the Reactive Frontier Molecular Orbitals and Their Origins. <i>Inorganic Chemistry</i> , 2019, 58, 327-338.	4.0	25
32	Phase behavior of mixed solution of a glycerin-modified cationic surfactant and an anionic surfactant. <i>Journal of Colloid and Interface Science</i> , 2007, 312, 139-145.	9.4	24
33	Selective molecular-gating adsorption in a novel copper-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5910-5918.	10.3	23
34	Structural Anomalies of Rb and Br Ionic Nanosolutions in Hydrophobic Slit-Shaped Solid Space as Revealed by the EXAFS Technique. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13616-13622.	2.6	21
35	Preparation and photocatalytic activity of titania particulate film with mesostructured silica as binder. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 357-362.	3.9	21
36	Oriented structures of alcohol hidden in carbon micropores with ERDF analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 187-188, 177-185.	4.7	20

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37	Direct Information on Structure and Energetic Features of Cu+Xe Species Formed in MFI-Type Zeolite at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2642-2650.	4.6	20
38	Actual Structure of Dissolved Zinc Ion Restricted in Less Than 1 Nanometer Micropores of Carbon. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14954-14959.	3.1	17
39	Identification of a Stable Zn II Oxyl Species Produced in an MFI Zeolite and Its Reversible Reactivity with O ₂ at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9715-9718.	13.8	17
40	Pore Structures of ZSM-5 Synthesized in the Mesopore Spaces of a Carbon Aerogel. <i>Adsorption Science and Technology</i> , 2003, 21, 199-203.	3.2	16
41	Mechanism of CH ₄ Activation on a Monomeric Zn ²⁺ -Ion Exchanged in MFI-Type Zeolite with a Specific Al Arrangement: Similarity to the Activation Site for H ₂ . <i>Journal of Physical Chemistry C</i> , 0, , 130917083323008.	3.1	16
42	Material Exhibiting Efficient CO ₂ Adsorption at Room Temperature for Concentrations Lower Than 1000 ppm: Elucidation of the State of Barium Ion Exchanged in an MFI-Type Zeolite. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8821-8833.	8.0	15
43	Dual-Copper Catalytic Site Formed in CuMFI Zeolite Makes Effective Activation of Ethane Possible Even at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10680-10691.	3.1	14
44	Photosensitized hydrogen evolution from water using single-walled carbon nanotube/fullerodendron/Pt(ii) coaxial nanohybrids. <i>New Journal of Chemistry</i> , 2013, 37, 4214.	2.8	14
45	EXAFS Study of Electrolytic Nanosolution Confined in Interstitial Nanospaces of SingleWall Carbon Nanohorn Colloids. <i>Physica Scripta</i> , 2005, , 685.	2.5	13
46	Storage Function of Carbon Nanospaces For Molecules and Ions. <i>ECS Transactions</i> , 2007, 11, 63-75.	0.5	13
47	Preparation of Petaloid Microspheres of Basic Magnesium Carbonate. <i>Langmuir</i> , 2007, 23, 5872-5874.	3.5	13
48	Visible-Light-Derived Photocatalyst Based on TiO ₂ N with a Tubular Structure. <i>Inorganic Chemistry</i> , 2011, 50, 9948-9957.	4.0	13
49	High-temperature treatment effect of microporous carbon on ordered structure of confined SO ₂ . <i>Chemical Physics Letters</i> , 2000, 329, 71-75.	2.6	12
50	Stearylamine Changes the Liposomal Shape from MLVs to LUVs. <i>Journal of Oleo Science</i> , 2005, 54, 251-254.	1.4	12
51	Structure of hydrated cobalt ions confined in the nanospace of single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8264.	2.8	12
52	Possibility of Copper-Ion-Exchanged MFI-Type Zeolite as C-H Bond Activation Material for Propane and the Driving Force for Activation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21483-21496.	3.1	12
53	Unprecedented CO ₂ adsorption behaviour by 5A-type zeolite discovered in lower pressure region and at 300 K. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7531-7545.	10.3	12
54	Water-initiated ordering around a copper ion of copper acetate confined in slit-shaped carbon micropores. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 82-86.	4.4	11

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55	Why do zeolites induce an unprecedented electronic state on exchanged metal ions?. Physical Chemistry Chemical Physics, 2017, 19, 25105-25114.	2.8	11
56	A facile synthesis of a SnO ₂ /Graphene oxide nano-nano composite and its photoreactivity. Materials Chemistry and Physics, 2018, 212, 149-154.	4.0	11
57	Preparation of Mesoporous Titania Particles with Photocatalytic Activity under Visible-light Irradiation. Chemistry Letters, 2005, 34, 1696-1697.	1.3	10
58	Membrane properties of cationic liposomes composed of dipalmitoylphosphatidylcholine and dipalmitoyldimethylammonium bromide. Colloids and Surfaces B: Biointerfaces, 2005, 44, 204-210.	5.0	10
59	Surplus adsorption of bromide ion into γ -conjugated carbon nanospaces assisted by proton coadsorption. Journal of Colloid and Interface Science, 2017, 508, 415-418.	9.4	10
60	Spectroscopic Determination of the Site in MFI Zeolite where Cobalt(I) Performs Two-Electron Reduction of O ₂ at Room Temperature. Journal of Physical Chemistry C, 2019, 123, 17842-17854.	3.1	10
61	Structural optimization of arranged carbon nanotubes for hydrogen storage by grand canonical Monte Carlo simulation. International Journal of Hydrogen Energy, 2010, 35, 12398-12404.	7.1	9
62	Highly compressed nanosolution restricted in cylindrical carbon nanospaces. Nanoscale, 2013, 5, 2080.	5.6	9
63	Nanospace-enhanced photoreduction for the synthesis of copper(I) oxide nanoparticles under visible-light irradiation. Journal of Colloid and Interface Science, 2014, 421, 165-169.	9.4	9
64	Tubular nitrogen-doped TiO ₂ samples with efficient photocatalytic properties based on long-lived charge separation under visible-light irradiation: synthesis, characterization and reactivity. Dalton Transactions, 2017, 46, 4435-4451.	3.3	9
65	Nanosolution as a New Turn of Nanoconfinement for Fluids. Australian Journal of Chemistry, 2003, 56, 1013.	0.9	8
66	Nanospace Molecular Science and Adsorption. Adsorption, 2005, 11, 21-28.	3.0	8
67	Template-Free Synthesis of Self-Assembled Co ₃ O ₄ Micro/Nanocrystals. Journal of Nanoscience and Nanotechnology, 2011, 11, 3171-3179.	0.9	8
68	Further Evidence for the Existence of a Dual-Cu ⁺ Site in MFI Working as the Efficient Site for C ₂ H ₆ Adsorption at Room Temperature. Langmuir, 2013, 29, 9727-9733.	3.5	8
69	Experimental Information on the Adsorbed Phase of Water Formed in the Inner Pore of Single-Walled Carbon Nanotube Itself. Langmuir, 2016, 32, 1058-1064.	3.5	8
70	Mechanism of Concentration-Dependent Vesicle-Micelle Transition in Aqueous Mixture of Cationic and Anionic Surfactants. Journal of Oleo Science, 2005, 54, 443-451.	1.4	7
71	Nano-atomization of Titanium Diboride Using Function-Building Fine Particle Preparation Method. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2005, 52, 3-9.	0.2	6
72	Synthesis and properties of a microtube photocatalyst with photoactive inner surface and inert outer surface. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 185, 133-139.	3.9	6

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73	TiO ₂ /TaON- and TiO ₂ /BiOI-Based Solid-State Solar Cells. <i>Journal of Energy Engineering - ASCE</i> , 2013, 139, 338-342.	1.9	6
74	Carbon-nanotube-based Photocatalysts for Water Splitting in Cooperation with BiVO ₄ and [Co(bpy) ₃] ^{3+/2+} . <i>Chemistry Letters</i> , 2019, 48, 410-413.	1.3	6
75	Experimental Description of Biomimetic NiII-Superoxo σ -Bond: Franck-Condon Analyses on Its Vibronically-Resolved Spectrum. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11544-11557.	3.1	6
76	A low-temperature oxyl transfer to carbon monoxide from the ZnII-oxyl site in a zeolite catalyst. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 319-328.	6.0	6
77	Fundamental Understanding of Nanoporous Carbons for Energy Application Potentials. <i>Carbon Letters</i> , 2009, 10, 177-180.	5.9	6
78	Preparation of tiny biodegradable capsules using electrocapillary emulsification. <i>Journal of Microencapsulation</i> , 2007, 24, 777-786.	2.8	5
79	Arrangement and Dispersion of Rh and Pt Atoms on Graphene Oxide Sheets. <i>Chemistry Letters</i> , 2012, 41, 680-682.	1.3	5
80	Orbital Trap of Xenon: Driving Force Distinguishing between Xe and Kr Found at a Single Ag(I) Site in MFI Zeolite at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8312-8326.	3.1	5
81	Preparation of Nanocapsules with Alginate/Polylysine Complex Wall. <i>Journal of Oleo Science</i> , 2006, 55, 615-621.	1.4	4
82	Asymmetric hydration structure around calcium ion restricted in micropores fabricated in activated carbons. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 464003.	1.8	4
83	Preparation of ZrB ₂ and HfB ₂ by Metallothermic Reduction of ZrO ₂ , ZrSiO ₄ , and HfO ₂ . <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005, 52, 664-669.	0.2	4
84	Effects of Dialkyldimethylammonium Bromides on the Membrane Properties of Cationic Liposomes. <i>Journal of Oleo Science</i> , 2005, 54, 383-388.	1.4	4
85	Structure of ultra-thin RbBr \cdot Solution in carbon nanospace. <i>Studies in Surface Science and Catalysis</i> , 2003, 146, 61-64.	1.5	3
86	Growth of Highly-Oriented Silica Nanotubes on Mica Substrate. <i>Journal of the Japan Society of Colour Material</i> , 2003, 76, 476-479.	0.1	3
87	Identification of a Stable Zn II σ -Oxyl Species Produced in an MFI Zeolite and Its Reversible Reactivity with O ₂ at Room Temperature. <i>Angewandte Chemie</i> , 2017, 129, 9847-9850.	2.0	3
88	Template-free fabrication of a cylindrical macropore array in SnO ₂ . <i>RSC Advances</i> , 2013, 3, 22949.	3.6	2
89	Room temperature O transfer from N ₂ O to CO mediated by the nearest Cd(ⁱ) ions in MFI zeolite cavities. <i>Dalton Transactions</i> , 2019, 48, 2308-2317.	3.3	2
90	Adsorption enhancement of nitrogen gas by atomically heterogeneous nanospace of boron nitride. <i>RSC Advances</i> , 2021, 11, 838-846.	3.6	2

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91	¹⁷ O-ESR Evidence for Zeolite Matrix Isolation of a Square Planar ZnO ₃ Ring Radical with <i>C</i> _{2v} Symmetry. Journal of Physical Chemistry C, 2021, 125, 5136-5145.	3.1	2
92	Ordered Arrangement of Polystyrene Latex Particles Conducted by Electrophoresis and Dielectrophoresis. Journal of Oleo Science, 2004, 53, 355-362.	1.4	2
93	Solution Properties of Sulfate-Type Fluoro-Hybrid Anionic Surfactants with a Benzene Ring in Their Molecules. Journal of Oleo Science, 2004, 53, 371-376.	1.4	1
94	Novel Approach for the Preparation of Metal Containing Mesoporous Silica Using Solubilization of Fatty Acid Salt. Chemistry Letters, 2005, 34, 346-347.	1.3	1
95	The Preparation of N-doped Titanium Dioxide by Metallothermic Reduction Method and Their Photocatalytic Activity. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2005, 52, 489-494.	0.2	1
96	Synthesis and Photophysical Properties of Visible Light Responsible TiO ₂ Doped by B. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2005, 52, 495-499.	0.2	1
97	Preparation of Hard Nanoceramics of Borides and Functionalization of Titania by Metallothermic Reduction Method. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2007, 54, 251-259.	0.2	1
98	Identification of a Stable Ozonide Ion Bound to a Single Cadmium Site within the Zeolite Cavity. Journal of Physical Chemistry C, 0, , .	3.1	1
99	Electrically Controlled Two-Dimensional Cluster Formation of Polystyrene Particles and Cluster Fixation with Adsorbed Polyelectrolyte. Journal of Oleo Science, 2004, 53, 437-444.	1.4	0