

# Takahiro Ohkubo

## List of Publications by Year in descending order

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99  
papers

3,065  
citations

236925

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101  
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101  
docs citations

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times ranked

3826  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A low-temperature oxyl transfer to carbon monoxide from the ZnII $\hat{=}$ oxyl site in a zeolite catalyst. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 319-328.	6.0	6
3	Adsorption enhancement of nitrogen gas by atomically heterogeneous nanospace of boron nitride. <i>RSC Advances</i> , 2021, 11, 838-846.	3.6	2
4	Unprecedented CO <sub>2</sub> 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
5	<sup>17</sup> O-ESR Evidence for Zeolite Matrix Isolation of a Square Planar ZnO <sub>3</sub> Ring Radical with $C_{2v}$ Symmetry. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5136-5145.	3.1	2
6	Experimental Description of Biomimetic NiII $\hat{=}$ Superoxo $\hat{\nu}$ -Bond: Franck-Condon Analyses on Its Vibronically-Resolved Spectrum. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11544-11557.	3.1	6
7	Room temperature O transfer from N <sub>2</sub> O to CO mediated by the nearest Cd( $\langle$ scp $\rangle$ ) ions in MFI zeolite cavities. <i>Dalton Transactions</i> , 2019, 48, 2308-2317.	3.3	2
8	Spectroscopic Determination of the Site in MFI Zeolite where Cobalt(II) Performs Two-Electron Reduction of O <sub>2</sub> at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17842-17854.	3.1	10
9	Carbon-nanotube-based Photocatalysts for Water Splitting in Cooperation with BiVO <sub>4</sub> and [Co(bpy) <sub>3</sub> ] <sup>3+/2+</sup> . <i>Chemistry Letters</i> , 2019, 48, 410-413.	1.3	6
10	Room-Temperature Activation of the C-H Bond in Methane over Terminal Zn <sup>II</sup> $\hat{=}$ 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
11	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
12	A facile synthesis of a SnO <sub>2</sub> /Graphene oxide nano-nano composite and its photoreactivity. <i>Materials Chemistry and Physics</i> , 2018, 212, 149-154.	4.0	11
13	Tubular nitrogen-doped TiO <sub>2</sub> samples with efficient photocatalytic properties based on long-lived charge separation under visible-light irradiation: synthesis, characterization and reactivity. <i>Dalton Transactions</i> , 2017, 46, 4435-4451.	3.3	9
14	Identification of a Stable Zn II $\hat{=}$ Oxyl Species Produced in an MFI Zeolite and Its Reversible Reactivity with O <sub>2</sub> at Room Temperature. <i>Angewandte Chemie</i> , 2017, 129, 9847-9850.	2.0	3
15	Identification of a Stable Zn II $\hat{=}$ Oxyl Species Produced in an MFI Zeolite and Its Reversible Reactivity with O <sub>2</sub> at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9715-9718.	13.8	17
16	Surplus adsorption of bromide ion into $\pi$ -conjugated carbon nanospaces assisted by proton coadsorption. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 415-418.	9.4	10
17	Why do zeolites induce an unprecedented electronic state on exchanged metal ions?. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25105-25114.	2.8	11
18	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

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19	Experimental Information on the Adsorbed Phase of Water Formed in the Inner Pore of Single-Walled Carbon Nanotube Itself. <i>Langmuir</i> , 2016, 32, 1058-1064.	3.5	8
20	Material Exhibiting Efficient CO <sub>2</sub> 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 &amp; Interfaces</i> , 2016, 8, 8821-8833.	8.0	15
21	Synthesis of an unexpected [Zn <sup>2+</sup> ] 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
22	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
23	Nanospace-enhanced photoreduction for the synthesis of copper(I) oxide nanoparticles under visible-light irradiation. <i>Journal of Colloid and Interface Science</i> , 2014, 421, 165-169.	9.4	9
24	An Important Factor in CH <sub>4</sub> Activation by Zn Ion in Comparison with Mg Ion in MFI: The Superior Electron-Accepting Nature of Zn <sup>2+</sup> . <i>Journal of Physical Chemistry C</i> , 2014, 118, 15234-15241.	3.1	37
25	TiO <sub>2</sub> /TaON- and TiO <sub>2</sub> /BiOI-Based Solid-State Solar Cells. <i>Journal of Energy Engineering - ASCE</i> , 2013, 139, 338-342.	1.9	6
26	Further Evidence for the Existence of a Dual-Cu <sup>+</sup> Site in MFI Working as the Efficient Site for C <sub>2</sub> H <sub>6</sub> Adsorption at Room Temperature. <i>Langmuir</i> , 2013, 29, 9727-9733.	3.5	8
27	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
28	Template-free fabrication of a cylindrical macropore array in SnO <sub>2</sub> . <i>RSC Advances</i> , 2013, 3, 22949.	3.6	2
29	Green synthesis of mesoporous hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) nanoparticles and their photocatalytic activity. <i>Advanced Powder Technology</i> , 2013, 24, 160-167.	4.1	256
30	Highly compressed nanosolution restricted in cylindrical carbon nanospaces. <i>Nanoscale</i> , 2013, 5, 2080.	5.6	9
31	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
32	Success in Making Zn <sup>+</sup> from Atomic Zn <sup>0</sup> 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
33	Arrangement and Dispersion of Rh and Pt Atoms on Graphene Oxide Sheets. <i>Chemistry Letters</i> , 2012, 41, 680-682.	1.3	5
34	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
35	Unprecedented Reversible Redox Process in the ZnMFI-H <sub>2</sub> System Involving Formation of Stable Atomic Zn <sup>0</sup> . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7719-7723.	13.8	44
36	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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37	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
38	Visible-Light-Derived Photocatalyst Based on $\text{TiO}_2$ with a Tubular Structure. <i>Inorganic Chemistry</i> , 2011, 50, 9948-9957.	4.0	13
39	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
40	Template-Free Synthesis of Self-Assembled $\text{Co}_3\text{O}_4$ Micro/Nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3171-3179.	0.9	8
41	Structural optimization of arranged carbon nanotubes for hydrogen storage by grand canonical Monte Carlo simulation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12398-12404.	7.1	9
42	Direct Information on Structure and Energetic Features of $\text{Cu}^+\text{Xe}$ Species Formed in MFI-Type Zeolite at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2642-2650.	4.6	20
43	Existence of dual species composed of $\text{Cu}^+$ in CuMFI being bridged by $\text{C}_2\text{H}_2$ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6455.	2.8	25
44	Potential for $\text{C}^-\text{H}$ Activation in $\text{CH}_4$ Utilizing a CuMFI-Type Zeolite as a Catalyst. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7213-7222.	3.1	32
45	Fundamental Understanding of Nanoporous Carbons for Energy Application Potentials. <i>Carbon Letters</i> , 2009, 10, 177-180.	5.9	6
46	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
47	Storage Function of Carbon Nanospaces For Molecules and Ions. <i>ECS Transactions</i> , 2007, 11, 63-75.	0.5	13
48	Preparation of tiny biodegradable capsules using electrocapillary emulsification. <i>Journal of Microencapsulation</i> , 2007, 24, 777-786.	2.8	5
49	Preparation of Petaloid Microspheres of Basic Magnesium Carbonate. <i>Langmuir</i> , 2007, 23, 5872-5874.	3.5	13
50	Cationic Surfactant Changes the Morphology of DNA Molecules. <i>Langmuir</i> , 2007, 23, 345-347.	3.5	25
51	Preparation of Hard Nanoceramics of Borides and Functionalization of Titania by Metallothermic Reduction Method. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2007, 54, 251-259.	0.2	1
52	Synthesis and properties of a microtube photocatalyst with photoactive inner surface and inert outer surface. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 185, 133-139.	3.9	6
53	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
54	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

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55	RBM band shift-evidenced dispersion mechanism of single-wall carbon nanotube bundles with NaDDBS. Journal of Colloid and Interface Science, 2007, 308, 276-284.	9.4	55
56	Synthesis of highly-ordered mesoporous silica particles using mixed cationic and anionic surfactants as templates. Journal of Colloid and Interface Science, 2007, 312, 42-46.	9.4	26
57	Photo-isomerization of spiropyran-modified cationic surfactants. Journal of Colloid and Interface Science, 2007, 316, 1027-1030.	9.4	44
58	Adsorption and Aggregation Properties of Heterogemini Surfactants Containing a Quaternary Ammonium Salt and a Sugar Moiety. Langmuir, 2006, 22, 9187-9191.	3.5	50
59	Preparation and Formation Mechanism of Mesoporous Titania Particles Having Crystalline Wall. Chemistry of Materials, 2006, 18, 2256-2260.	6.7	64
60	Preparation of Highly Dispersed Core/Shell-type Titania Nanocapsules Containing a Single Ag Nanoparticle. Journal of the American Chemical Society, 2006, 128, 4944-4945.	13.7	200
61	Preparation of Nanocapsules with Alginate/Polylysine Complex Wall. Journal of Oleo Science, 2006, 55, 615-621.	1.4	4
62	Preparation and photocatalytic activity of titania particulate film with mesostructured silica as binder. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 357-362.	3.9	21
63	Polymerizable Cationic Gemini Surfactant. Langmuir, 2006, 22, 8293-8297.	3.5	50
64	Stearylamine Changes the Liposomal Shape from MLVs to LUVs. Journal of Oleo Science, 2005, 54, 251-254.	1.4	12
65	EXAFS Study of Electrolytic Nanosolution Confined in Interstitial Nanospaces of SingleWall Carbon Nanohorn Colloids. Physica Scripta, 2005, , 685.	2.5	13
66	Preparation of Mesoporous Titania Particles with Photocatalytic Activity under Visible-light Irradiation. Chemistry Letters, 2005, 34, 1696-1697.	1.3	10
67	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
68	Membrane properties of cationic liposomes composed of dipalmitoylphosphatidylcholine and dipalmitoyldimethylammonium bromide. Colloids and Surfaces B: Biointerfaces, 2005, 44, 204-210.	5.0	10
69	Nanospace Molecular Science and Adsorption. Adsorption, 2005, 11, 21-28.	3.0	8
70	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
71	Synthesis and Photophysical Properties of Visible Light Responsible TiO <sub>2</sub> Doped by B. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2005, 52, 495-499.	0.2	1
72	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

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73	Mechanism of Concentration-Dependent Vesicle-Micelle Transition in Aqueous Mixture of Cationic and Anionic Surfactants. <i>Journal of Oleo Science</i> , 2005, 54, 443-451.	1.4	7
74	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
75	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
76	Photoinduced Reversible Change of Fluid Viscosity. <i>Journal of the American Chemical Society</i> , 2005, 127, 13454-13455.	13.7	166
77	Preparation of ZrB <sub>2</sub> and HfB <sub>2</sub> by Metallothermic Reduction of ZrO <sub>2</sub> , ZrSiO <sub>4</sub> , and HfO <sub>2</sub> . <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2005, 52, 664-669.	0.2	4
78	Effects of Dialkyldimethylammonium Bromides on the Membrane Properties of Cationic Liposomes. <i>Journal of Oleo Science</i> , 2005, 54, 383-388.	1.4	4
79	Solution Properties of Sulfate-Type Fluoro-Hybrid Anionic Surfactants with a Benzene Ring in Their Molecules. <i>Journal of Oleo Science</i> , 2004, 53, 371-376.	1.4	1
80	Cluster-Associated Filling of Water in Hydrophobic Carbon Micropores. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14043-14048.	2.6	78
81	Three-Dimensional Arrangements of Polystyrene Latex Particles with a Hyperbolic Quadruple Electrode System. <i>Langmuir</i> , 2004, 20, 5046-5051.	3.5	25
82	Control of Particle Alignment in Water by an Alternating Electric Field. <i>Langmuir</i> , 2004, 20, 7021-7026.	3.5	27
83	Control of Viscoelasticity Using Redox Reaction. <i>Journal of the American Chemical Society</i> , 2004, 126, 12282-12283.	13.7	255
84	Ordered Arrangement of Polystyrene Latex Particles Conducted by Electrophoresis and Dielectrophoresis. <i>Journal of Oleo Science</i> , 2004, 53, 355-362.	1.4	2
85	Electrically Controlled Two-Dimensional Cluster Formation of Polystyrene Particles and Cluster Fixation with Adsorbed Polyelectrolyte. <i>Journal of Oleo Science</i> , 2004, 53, 437-444.	1.4	0
86	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
87	Nanosolution as a New Turn of Nanoconfinement for Fluids. <i>Australian Journal of Chemistry</i> , 2003, 56, 1013.	0.9	8
88	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
89	Structure of ultra-thin RbBr "Solution" in carbon nanospace. <i>Studies in Surface Science and Catalysis</i> , 2003, 146, 61-64.	1.5	3
90	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

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91	Restricted Hydration Structures of Rb and Br Ions Confined in Slit-Shaped Carbon Nanospace. Journal of the American Chemical Society, 2002, 124, 11860-11861.	13.7	96
92	Adsorption Properties of Templated Mesoporous Carbon (CMK-1) for Nitrogen and Supercritical Methane Experiment and GCMC Simulation. Journal of Physical Chemistry B, 2002, 106, 6523-6528.	2.6	107
93	Hydrogen-bond change-associated gas adsorption in inorganic-organic hybrid microporous crystals. Applied Surface Science, 2002, 196, 81-88.	6.1	54
94	Oriented structures of alcohol hidden in carbon micropores with ERDF analysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 187-188, 177-185.	4.7	20
95	High-temperature treatment effect of microporous carbon on ordered structure of confined SO <sub>2</sub> . Chemical Physics Letters, 2000, 329, 71-75.	2.6	12
96	Organized structures of methanol in carbon nanospaces at 303 K studies with in situ X-ray diffraction. Chemical Physics Letters, 1999, 312, 191-195.	2.6	30
97	Pore-Width-Dependent Ordering of C <sub>2</sub> H <sub>5</sub> OH Molecules Confined in Graphitic Slit Nanospaces. Journal of Physical Chemistry B, 1999, 103, 1859-1863.	2.6	74
98	Mechanism of CH <sub>4</sub> Activation on a Monomeric Zn <sup>2+</sup> -Ion Exchanged in MFI-Type Zeolite with a Specific Al Arrangement: Similarity to the Activation Site for H <sub>2</sub> . Journal of Physical Chemistry C, 0, , 130917083323008.	3.1	16
99	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