

Yasushige Kuroda

List of Publications by Year in descending order

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50
papers

1,143
citations

361413

20
h-index

414414

32
g-index

51
all docs

51
docs citations

51
times ranked

1254
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Visible-Light-Responsive TiO ₂ -xN _x Photocatalyst by a Sol-Gel Method: Analysis of the Active Center on TiO ₂ that Reacts with NH ₃ . <i>Langmuir</i> , 2005, 21, 8026-8034.	3.5	100
2	X-ray Diffraction Study of Water Confined in Mesoporous MCM-41 Materials over a Temperature Range of 223~298 K. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5498-5504.	2.6	98
3	Specific Feature of Copper Ion-Exchanged Mordenite for Dinitrogen Adsorption at Room Temperature. <i>The Journal of Physical Chemistry</i> , 1995, 99, 10621-10628.	2.9	96
4	Effects of ZSM-5 Zeolite Confinement on Reaction Intermediates during Dioxygen Activation by Enclosed Dicopper Cations. <i>Inorganic Chemistry</i> , 2009, 48, 508-517.	4.0	68
5	Roles of Water Molecules in Modulating the Reactivity of Dioxygen-Bound Cu-ZSM-5 toward Methane: A Theoretical Prediction. <i>ACS Catalysis</i> , 2016, 6, 2487-2495.	11.2	54
6	Neutron Scattering Study on Dynamics of Water Molecules Confined in MCM-41. <i>Adsorption</i> , 2005, 11, 479-483.	3.0	52
7	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
8	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
9	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
10	Site-specific Xe additions into Cu-ZSM-5 zeolite. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2392.	2.8	32
11	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
12	In situ sample cell for EXAFS measurements on materials treated at elevated temperatures in vacuo. <i>Review of Scientific Instruments</i> , 1989, 60, 3083-3085.	1.3	25
13	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
14	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
15	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
16	Behavior of Ag ₃ Clusters Inside a Nanometer-Sized Space of ZSM-5 Zeolite. <i>Inorganic Chemistry</i> , 2011, 50, 6533-6542.	4.0	24
17	A New Strategy for the Improvement of the N ₂ Adsorption Properties of Copper-Ion-Exchanged MFI-Type Zeolites at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12011-12023.	3.1	23
18	Combined Experimental and Computational Approaches To Elucidate the Structures of Silver Clusters inside the ZSM-5 Cavity. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23874-23887.	3.1	23

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19	Utilizing super-atom orbital ideas to understand properties of silver clusters inside ZSM-5 zeolite. RSC Advances, 2017, 7, 4950-4959.	3.6	21
20	Characteristics of Silver Ions Exchanged in ZSM-5-Type Zeolite, Aluminosilicate, and SiO ₂ Samples: A Comparison with the Properties of Copper Ions Exchanged in These Materials. Journal of Physical Chemistry B, 2002, 106, 8976-8987.	2.6	20
21	Direct Information on Structure and Energetic Features of Cu ⁺ Xe Species Formed in MFI-Type Zeolite at Room Temperature. Journal of Physical Chemistry Letters, 2010, 1, 2642-2650.	4.6	20
22	Actual Structure of Dissolved Zinc Ion Restricted in Less Than 1 Nanometer Micropores of Carbon. Journal of Physical Chemistry C, 2011, 115, 14954-14959.	3.1	17
23	Identification of a Stable Zn II "Oxyl Species Produced in an MFI Zeolite and Its Reversible Reactivity with O ₂ at Room Temperature. Angewandte Chemie - International Edition, 2017, 56, 9715-9718.	13.8	17
24	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 . Journal of Physical Chemistry C, 0, , 130917083323008.	3.1	16
25	The Variety of Carbon-Metal Bonds inside Cu-ZSM-5 Zeolites: A Density Functional Theory Study. Materials, 2010, 3, 2516-2535.	2.9	15
26	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. ACS Applied Materials & Interfaces, 2016, 8, 8821-8833.	8.0	15
27	Interlayer Water Molecules in Vanadium Pentoxide Hydrate, V ₂ O ₅ ·nH ₂ O. 7. Quasi-elastic Neutron Scattering Study. Langmuir, 2000, 16, 10559-10563.	3.5	14
28	Dual-Copper Catalytic Site Formed in CuMFI Zeolite Makes Effective Activation of Ethane Possible Even at Room Temperature. Journal of Physical Chemistry C, 2012, 116, 10680-10691.	3.1	14
29	Visible-Light-Derived Photocatalyst Based on TiO ₂ ·N with a Tubular Structure. Inorganic Chemistry, 2011, 50, 9948-9957.	4.0	13
30	EXAFS Studies on Y _{1-x} BaxCuO _{3-δ} Superconductors. Journal of the Physical Society of Japan, 1987, 56, 3413-3416.	1.6	12
31	Possibility of Copper-Ion-Exchanged MFI-Type Zeolite as C-H Bond Activation Material for Propane and the Driving Force for Activation. Journal of Physical Chemistry C, 2015, 119, 21483-21496.	3.1	12
32	Unprecedented CO ₂ adsorption behaviour by 5A-type zeolite discovered in lower pressure region and at 300 K. Journal of Materials Chemistry A, 2021, 9, 7531-7545.	10.3	12
33	Why do zeolites induce an unprecedented electronic state on exchanged metal ions?. Physical Chemistry Chemical Physics, 2017, 19, 25105-25114.	2.8	11
34	Surplus adsorption of bromide ion into π-conjugated carbon nanospaces assisted by proton coadsorption. Journal of Colloid and Interface Science, 2017, 508, 415-418.	9.4	10
35	Spectroscopic Determination of the Site in MFI Zeolite where Cobalt(II) Performs Two-Electron Reduction of O ₂ at Room Temperature. Journal of Physical Chemistry C, 2019, 123, 17842-17854.	3.1	10
36	Improvement in the surface acidity of Al ₂ O ₃ ·SiO ₂ due to a high Al dispersion. Chemical Communications, 2001, , 1006-1007.	4.1	9

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37	Development of a new analysis method evaluating adsorption energies for the respective ion-exchanged sites on alkali-metal ion-exchanged ZSM-5 utilizing CO as a probe molecule: IR-spectroscopic and calorimetric studies combined with a DFT method. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5041.	2.8	9
38	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
39	Tubular nitrogen-doped TiO ₂ 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
40	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. <i>Langmuir</i> , 2013, 29, 9727-9733.	3.5	8
41	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
42	Experimental Description of Biomimetic Ni ^{II} -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
43	A low-temperature oxyl transfer to carbon monoxide from the Zn ^{II} -oxyl site in a zeolite catalyst. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 319-328.	6.0	6
44	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
45	Identification of a Stable Zn II $\hat{\nu}$ -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
46	Room temperature O transfer from N ₂ O to CO mediated by the nearest Cd(⁺) ions in MFI zeolite cavities. <i>Dalton Transactions</i> , 2019, 48, 2308-2317.	3.3	2
47	Adsorption enhancement of nitrogen gas by atomically heterogeneous nanospace of boron nitride. <i>RSC Advances</i> , 2021, 11, 838-846.	3.6	2
48	¹⁷ O-ESR Evidence for Zeolite Matrix Isolation of a Square Planar ZnO ₃ Ring Radical with <i>C</i> _{2v} Symmetry. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5136-5145.	3.1	2
49	Identification of a Stable Ozonide Ion Bound to a Single Cadmium Site within the Zeolite Cavity. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	1
50	Calorimetric and Spectroscopic Studies of Water Adsorption onto Alkaline Earth Fluorides. <i>Adsorption Science and Technology</i> , 2005, 23, 425-436.	3.2	0