

Takahiro Ohkubo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1526801/publications.pdf>

Version: 2024-02-01

41
papers

482
citations

687363

13
h-index

752698

20
g-index

42
all docs

42
docs citations

42
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of metallic cation-oxygen network for anomalous thermal expansion coefficients in binary phosphate glass. <i>Nature Communications</i> , 2017, 8, 15449.	12.8	42
2	Pore distribution of water-saturated compacted clay using NMR relaxometry and freezing temperature depression; effects of density and salt concentration. <i>Applied Clay Science</i> , 2016, 123, 148-155.	5.2	33
3	An approach of NMR relaxometry for understanding water in saturated compacted bentonite. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S169-S176.	2.9	29
4	Molecular dynamics simulations of Nafion and sulfonated polyether sulfone membranes. I. Effect of hydration on aqueous phase structure. <i>Journal of Molecular Modeling</i> , 2011, 17, 739-755.	1.8	26
5	Insights from ab initio molecular dynamics simulations for a multicomponent oxide glass. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1122-1134.	3.8	21
6	Molecular dynamics simulations of nafion and sulfonated poly ether sulfone membranes II. Dynamic properties of water and hydronium. <i>Journal of Molecular Modeling</i> , 2012, 18, 533-540.	1.8	20
7	Examination of structure and optical properties of Ce ³⁺ -doped strontium borate glass by regression analysis. <i>Scientific Reports</i> , 2021, 11, 3811.	3.3	19
8	An adaptive finite-element method for large-scale ab initio molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31444-31452.	2.8	18
9	First-Principles Molecular Dynamics Simulation and Conductivity Measurements of a Molten xLi ₂ O-(1-x)B ₂ O ₃ System. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10784-10791.	2.6	17
10	Molecular Dynamics Simulation of Water Confinement in Disordered Aluminosilicate Subnanopores. <i>Scientific Reports</i> , 2018, 8, 3761.	3.3	17
11	Modeling the Structure and Dynamics of Lithium Borosilicate Glasses with Ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8080-8089.	3.1	17
12	Ab Initio Molecular Dynamics Simulations and GIPAW NMR Calculations of a Lithium Borate Glass Melt. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3582-3590.	2.6	15
13	Photocatalytic hydrogen generation of monolithic porous titanium oxide-based glass-ceramics. <i>Scientific Reports</i> , 2020, 10, 11615.	3.3	15
14	New Insights into the Cs Adsorption on Montmorillonite Clay from ¹³³ Cs Solid-State NMR and Density Functional Theory Calculations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9326-9337.	2.5	13
15	Temperature-Dependent Water Redistribution from Large Pores to Fine Pores after Water Uptake in Hardened Cement Paste. <i>Journal of Advanced Concrete Technology</i> , 2020, 18, 588-599.	1.8	13
16	Correlation between emission properties, valence states of Ce and chemical compositions of alkaline earth borate glasses. <i>Journal of Luminescence</i> , 2018, 197, 98-103.	3.1	12
17	Conduction Mechanism in 70Li ₂ S-30P ₂ S ₅ Glass by Ab Initio Molecular Dynamics Simulations: Comparison with Li ₇ P ₃ S ₁₁ Crystal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25736-25747.	8.0	12
18	Modified Li ₇ P ₃ S ₁₁ Glass-Ceramic Electrolyte and Its Characterization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37071-37081.	8.0	12

#	ARTICLE	IF	CITATIONS
19	Deconvolution and Estimation of Water Diffusion in Sulfonated Polyethersulfone Membranes Using Diffusion-Weighted Inversion Recovery.. Journal of Physical Chemistry Letters, 2012, 3, 1030-1034.	4.6	11
20	Diffusion of tritiated water, $^{137}\text{Cs}^+$, and $^{125}\text{I}^-$ in compacted Ca-montmorillonite: Experimental and modeling approaches. Applied Clay Science, 2021, 211, 106176.	5.2	11
21	Correlation between Structures and Physical Properties of Binary $\text{ZnO-P}_{25}\text{O}_5$ Glasses. Physica Status Solidi (B): Basic Research, 2020, 257, 2000186.	1.5	10
22	Low melting oxide glasses prepared at a melt temperature of $500\text{Å}^\circ\text{C}$. Scientific Reports, 2021, 11, 214.	3.3	10
23	Li conduction pathways in solid-state electrolytes: Insights from dynamics and polarizability. Chemical Physics Letters, 2018, 698, 234-239.	2.6	9
24	X-ray absorption near-edge structure of Ag cations in phosphate glasses for radiophotoluminescence applications. Journal of the Ceramic Society of Japan, 2019, 127, 924-930.	1.1	9
25	Self-diffusion coefficient of lithium in molten $x\text{Li}_2\text{O}-(1-x)\text{B}_2\text{O}_3$ system using high-temperature PFG NMR. Chemical Physics Letters, 2012, 530, 61-63.	2.6	8
26	Magnesiothermic Reduction of Silicon Dioxide to Obtain Fine Silicon Powder in Molten Salt Media: Analysis of Reduction Mechanism. Electrochemistry, 2018, 86, 198-201.	1.4	8
27	Lithium conduction and the role of alkaline earth cations in $\text{Li}_2\text{S-P}_2\text{S}_5\text{-MS}$ (M = Ca, Sr, Ba) glasses. Journal of Non-Crystalline Solids, 2020, 538, 120025.	3.1	8
28	Pore distribution of compacted Ca-montmorillonite using NMR relaxometry and cryoporometry: Comparison with Na-montmorillonite. Microporous and Mesoporous Materials, 2021, 313, 110841.	4.4	8
29	A new universal force-field for the $\text{Li}_{22}\text{P}_{22}\text{S}_{55}$ system. Physical Chemistry Chemical Physics, 2022, 24, 2567-2581.	2.8	7
30	Changes in surface structure of sodium aluminoborosilicate glasses during aqueous corrosion analyzed by using NMR. Journal of Physics and Chemistry of Solids, 2015, 77, 164-171.	4.0	6
31	Characterization of irradiation-induced novel voids in $\hat{1}\pm$ -quartz. AIP Advances, 2020, 10, 125212.	1.3	5
32	Elucidating the Atomic Structures of the Gel Layer Formed during Aluminoborosilicate Glass Dissolution: An Integrated Experimental and Simulation Study. Journal of Physical Chemistry C, 2022, 126, 7999-8015.	3.1	4
33	Understanding properties of copoly(arylene ether nitrile)s high-performance polymer electrolyte membranes for fuel cells from molecular dynamics simulations. Theoretical Chemistry Accounts, 2011, 130, 555-561.	1.4	3
34	Molecular Dynamics Simulations of the Thermal and Transport Properties of Molten $\text{NaNO}_2\text{-NaNO}_3$ Systems. Electrochemistry, 2018, 86, 104-108.	1.4	3
35	Structural analyses of amorphous calcium carbonate before and after removing strontium ions from an aqueous solution. Journal of the Ceramic Society of Japan, 2022, 130, 225-231.	1.1	3
36	The Local Structure of Liquid TiCl_4 Analyzed by X-Ray Diffraction and Raman Spectroscopy. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 66-72.	1.5	2

#	ARTICLE	IF	CITATIONS
37	Densities and Refractive Indices of Molten Alkali Iodides: Estimation of Electronic Polarizability of an Iodide Ion. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 5240-5248.	1.9	2
38	Activity Report on Information-Gathering of Database Literatures for Molten Salts. <i>Electrochemistry</i> , 2020, 88, 243-252.	1.4	2
39	Time-dependent Born charges of lithium borate melts by ab initio molecular dynamics. <i>Chemical Physics Letters</i> , 2014, 612, 68-72.	2.6	1
40	Electronic Polarisability of NaNO_2 and NaNO_3 and NaOH Ionic Melts and Effective Ionic Radius of $\text{OH}^{1/4}$. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 71-76.	1.5	1
41	Electrical Conductivity of Molten $\text{DyCl}_3\text{-NaCl}$ and $\text{DyCl}_3\text{-KCl}$ Systems: An Approach to Structural Interpretations of Rare Earth Chloride Melts. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 1105-1112.	1.5	0