

Yusuke Nanba

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Noble-Metal High-Entropy-Alloy Nanoparticles: Atomic-Level Insight into the Electronic Structure. <i>Journal of the American Chemical Society</i> , 2022, 144, 3365-3369.	13.7	94
2	Redox Potential Paradox in Na_xMO_2 for Sodium-Ion Battery Cathodes. <i>Chemistry of Materials</i> , 2016, 28, 1058-1065.	6.7	93
3	Solid-Solution Alloy Nanoparticles of the Immiscible Iridium-Copper System with a Wide Composition Range for Enhanced Electrocatalytic Applications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4505-4509.	13.8	86
4	Material/element-dependent fluorescence-yield modes on soft X-ray absorption spectroscopy of cathode materials for Li-ion batteries. <i>AIP Advances</i> , 2016, 6, .	1.3	48
5	A CO Adsorption Site Change Induced by Copper Substitution in a Ruthenium Catalyst for Enhanced CO Oxidation Activity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2230-2235.	13.8	48
6	Structural Stability of Ruthenium Nanoparticles: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27445-27452.	3.1	46
7	Li-ion and Na-ion insertion into size-controlled nickel hexacyanoferrate nanoparticles. <i>RSC Advances</i> , 2014, 4, 24955.	3.6	36
8	Charge/discharge mechanism of a new Co-doped Li_2O cathode material for a rechargeable sealed lithium-peroxide battery analyzed by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2015, 287, 220-225.	7.8	31
9	Operando soft x-ray emission spectroscopy of LiMn_2O_4 thin film involving Li^+ ion extraction/insertion reaction. <i>Electrochemistry Communications</i> , 2015, 50, 93-96.	4.7	29
10	Electronic origin of hydrogen storage in MOF-covered palladium nanocubes investigated by synchrotron X-rays. <i>Communications Chemistry</i> , 2018, 1, .	4.5	24
11	Theoretical Study of the Hydrogen Absorption Mechanism into a Palladium Nanocube Coated with a Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14611-14617.	3.1	23
12	Distinguishing between High- and Low-Spin States for Divalent Mn in Mn-Based Prussian Blue Analogue by High-Resolution Soft X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4008-4013.	4.6	22
13	NO Adsorption on 4d and 5d Transition-Metal (Rh, Pd, Ag, Ir, and Pt) Nanoparticles: Density Functional Theory Study and Supervised Learning. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28114-28122.	3.1	22
14	Highly Stable and Active Solid-Solution Alloy Three-Way Catalyst by Utilizing Configurational Entropy Effect. <i>Advanced Materials</i> , 2021, 33, e2005206.	21.0	22
15	Anisotropic charge-transfer effects in the asymmetric $\text{Fe}(\text{CN})_5\text{NO}$ octahedron of sodium nitroprusside: a soft X-ray absorption spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7031-7036.	2.8	21
16	An Element-Based Generalized Coordination Number for Predicting the Oxygen Binding Energy on Pt_3M (M = Co, Ni, or Cu) Alloy Nanoparticles. <i>ACS Omega</i> , 2021, 6, 3218-3226.	3.5	17
17	Solid-Solution Alloy Nanoparticles of the Immiscible Iridium-Copper System with a Wide Composition Range for Enhanced Electrocatalytic Applications. <i>Angewandte Chemie</i> , 2018, 130, 4595-4599.	2.0	13
18	Large Charge-Transfer Energy in LiFePO_4 Revealed by Full-Multiplet Calculation for the $\text{Fe L}_{2,3}$ Edge Soft X-ray Emission Spectra. <i>ChemPhysChem</i> , 2018, 19, 988-992.	2.1	13

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19	Competition between Backbonding and Electron Correlation in Fe Cyanides. Journal of the Physical Society of Japan, 2010, 79, 114722.	1.6	11
20	Mn 2p resonant X-ray emission clarifies the redox reaction and charge-transfer effects in LiMn_2O_4 . Physical Chemistry Chemical Physics, 2019, 21, 18363-18369.	2.8	11
21	A CO Adsorption Site Change Induced by Copper Substitution in a Ruthenium Catalyst for Enhanced CO Oxidation Activity. Angewandte Chemie, 2019, 131, 2252-2257.	2.0	11
22	Investigation of the relationship between the cycle performance and the electronic structure in $\text{LiAl}_x\text{Mn}_2\text{O}_4$ ($x = 0$ and 0.2) using soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 16507-16511.	2.8	10
23	<i>Operando</i> soft X-ray emission spectroscopy of the Fe_2O_3 anode to observe the conversion reaction. Physical Chemistry Chemical Physics, 2019, 21, 26351-26357.	2.8	9
24	Electronic structure and phase stability of Pt_3M ($\text{M} = \text{Co, Ni, and Cu}$) bimetallic nanoparticles. Computational Materials Science, 2020, 184, 109874.	3.0	9
25	Density Functional Theory and Machine Learning Description and Prediction of Oxygen Atom Chemisorption on Platinum Surfaces and Nanoparticles. ACS Omega, 2021, 6, 17424-17432.	3.5	9
26	Theory of Fe and Mn 2p X-ray absorption for $\text{RbMn}[\text{Fe}(\text{CN})_6]$. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 167-174.	1.7	8
27	Correlation between the $\text{O} 2p$ Orbital and Redox Reaction in $\text{LiMn}_{0.6}\text{Fe}_{0.4}\text{PO}_4$ Nanowires Studied by Soft X-ray Absorption. ChemPhysChem, 2016, 17, 4110-4115.	2.1	7
28	Thermodynamic Stabilities of PdRuM ($\text{M} = \text{Cu, Rh, Ir, Au}$) Alloy Nanoparticles Assessed by Wang's Landau Sampling Combined with DFT Calculations and Multiple Regression Analysis. Bulletin of the Chemical Society of Japan, 2021, 94, 2484-2492.	3.2	6
29	<i>Sm 4f</i> Electronic State of Heavy Fermion Compound $\text{SmOs}_4\text{Sb}_{12}$ by Theory of High-Energy Spectroscopy. Journal of the Physical Society of Japan, 2013, 82, 104712.	1.6	5
30	Shape stability and electronic structure of Pt_3M ($\text{M} = \text{Co or Ni}$) alloy nanoparticles. Computational Materials Science, 2022, 203, 111132.	3.0	5
31	Charge Transfer Effects on Fe 2p X-ray Photoemission of $\text{RbMn}[\text{Fe}(\text{CN})_6]$, $\text{K}_3\text{Fe}(\text{CN})_6$, and $\text{K}_4\text{Fe}(\text{CN})_6$. Journal of the Physical Society of Japan, 2011, 80, 074710.	1.6	4
32	Phase Control of Solid-Solution Nanoparticles beyond the Phase Diagram for Enhanced Catalytic Properties. ACS Materials Au, 2022, 2, 110-116.	6.0	4
33	Thermodynamic stability of PdRu alloy nanoparticles: combination of density functional theory calculations, supervised learning, and Wang's Landau sampling. Physical Chemistry Chemical Physics, 2022, 24, 15452-15461.	2.8	3
34	<i>Operando</i> resonant soft X-ray emission spectroscopy of the LiMn_2O_4 cathode using an aqueous electrolyte solution. Physical Chemistry Chemical Physics, 2022, 24, 19177-19183.	2.8	2
35	Observation of π backbonding features appearing in Fe 2p X-ray absorption spectra and Fe 1s-4p-1s resonant X-ray emission spectra of $\text{RbMn}[\text{Fe}(\text{CN})_6]$. Journal of Physics: Conference Series, 2013, 430, 012082.	0.4	1
36	Frontispiece: A CO Adsorption Site Change Induced by Copper Substitution in a Ruthenium Catalyst for Enhanced CO Oxidation Activity. Angewandte Chemie - International Edition, 2019, 58, .	13.8	1

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37	Frontispiz: A CO Adsorption Site Change Induced by Copper Substitution in a Ruthenium Catalyst for Enhanced CO Oxidation Activity. <i>Angewandte Chemie</i> , 2019, 131, .	2.0	0
38	First-Principles Calculations of Stability, Electronic Structure, and Sorption Properties of Nanoparticle Systems. <i>Journal of Computer Chemistry Japan</i> , 2021, 20, 23-47.	0.1	0