## Kiminori Sato

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3172257/publications.pdf

Version: 2024-02-01

331538 434063 1,126 85 21 31 h-index citations g-index papers 86 86 86 746 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Molecular adsorption by biochar produced by eco-friendly low-temperature carbonization investigated using graphene structural reconfigurations. Green Chemistry Letters and Reviews, 2022, 15, 287-295.	2.1	3
2	Energy dissipation of para-positronium in polymers and silica glass. Applied Physics Express, 2022, 15, 076001.	1.1	2
3	Instantaneous Ex Situ Mineral Carbonation Relevant to Alkali Metals in Clay Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 4878-4884.	1.5	2
4	Improvement of the far-infrared optical property for glasses by plasma-assisted dispersion of fluorocarbon species into the shallow surface. Review of Scientific Instruments, 2021, 92, 063905.	0.6	1
5	Origin of enhanced boric acid adsorption in light-burned magnesium oxide. Journal of Chemical Physics, 2020, 153, 124704.	1.2	4
6	Impact of crystallization method on the strain, defect formation, and thermoluminescence of YAG:Ce crystals. Journal of Alloys and Compounds, 2020, 849, 156600.	2.8	7
7	Carbon dioxide adsorption in open nanospaces formed by overlap of saponite clay nanosheets. Communications Chemistry, 2020, 3, .	2.0	13
8	Alternation Mechanism of Lead Sulfate toward Lead Sulfide under Sulfuric Acid Conditions. Journal of Physical Chemistry C, 2020, 124, 19616-19621.	1.5	2
9	Evaluation methodology of diffusion coefficient of guest substances associated with angstrom-scale open spaces in materials by slow positron beam. Review of Scientific Instruments, 2020, 91, 083907.	0.6	2
10	Structural reconfigurations of nanosheet arrays in layered minerals caused by wave irradiation: desorption mechanism of Cs from nanosheet edges. Physical Chemistry Chemical Physics, 2019, 21, 16345-16352.	1.3	6
11	Mechanism of glass-forming ability enhancement upon micro solute addition for Ce-Ga-Cu-Ni bulk metallic glasses. Intermetallics, 2019, 114, 106603.	1.8	1
12	Open space formation with mechanically-bent single layer of inorganic minerals. AIP Conference Proceedings, 2019, , .	0.3	0
13	Pore structure development of silica particles below the isoelectric point. Microporous and Mesoporous Materials, 2018, 267, 257-264.	2.2	7
14	The role of open spaces to glass-forming ability in bulk metallic glasses. Intermetallics, 2018, 100, 112-115.	1.8	6
15	Study of Salt Precipitation in Polymer Electrolytes Based on Poly(ethylene oxide) and EMImTf Ionic Liquid. Journal of Physical Chemistry B, 2018, 122, 7009-7014.	1.2	10
16	Development of Teaching Exercises for Radiation Education to Evaluate Radioactivity Concentration in Environmental Samples with Certified Reference Materials. Radioisotopes, 2018, 67, 583-589.	0.1	1
17	Anomalous packing state in Ce-Ga-Cu bulk metallic glasses. Intermetallics, 2017, 84, 25-29.	1.8	16
18	Unusual volume change associated with crystallization in Ce-Ga-Cu bulk metallic glass. Intermetallics, 2017, 88, 1-5.	1.8	6

#	Article	IF	CITATIONS
19	Probing Charge-State Distribution at Grain Boundaries Varied with Dopant Concentration for Ceria Ceramics. Journal of Physical Chemistry C, 2017, 121, 20407-20412.	1.5	11
20	Molecular studies of Cs adsorption sites in inorganic layered materials: the influence of solution concentration. Physical Chemistry Chemical Physics, 2017, 19, 18481-18486.	1.3	8
21	Cesium Diffusion through Angstrom-Scale Open Spaces in Clay Minerals. Journal of the Physical Society of Japan, 2017, 86, 034901.	0.7	3
22	Opal T in chert beneath the toe of the Tohoku margin and its influence on the seismic aseismic transition in subduction zones. Geophysical Research Letters, 2017, 44, 687-693.	1.5	2
23	Studies of Montmorillonite Mechanochemically Decomposed at Different Water Contents. Geomaterials, 2017, 07, 41-50.	0.4	2
24	Development of Advanced Curriculum of Radiation Education for Training Science Teachers of Junior and Senior High Schools. Radioisotopes, 2017, 66, 633-640.	0.1	0
25	Reverse-Martensitic Hardening of Austenitic Stainless Steel upon Up-quenching. Journal of the Physical Society of Japan, 2016, 85, 084601.	0.7	0
26	Enhanced Adhesivity of Water Molecules Confined in Angstrom-Scale Open Spaces Formed by Two-Dimensional Nanosheets. Journal of Physical Chemistry C, 2016, 120, 27509-27514.	1.5	4
27	Quantitative Elucidation of Cs Adsorption Sites in Clays: Toward Sophisticated Decontamination of Radioactive Cs. Journal of Physical Chemistry C, 2016, 120, 1270-1274.	1.5	22
28	Reduction of Local Stress Concentration on Nanosheet in Layered Nanoparticles with Water Molecules. International Journal of Nanoscience, 2015, 14, 1460019.	0.4	0
29	Self-Assembly Influenced by Geometrical Orientation of Nanosheet in Layered Nanoparticles. International Journal of Nanoscience, 2015, 14, 1460018.	0.4	0
30	Grain-Boundary Structures Associated with Ionic Transport in Gd-Doped Ceria Nanostructured Electrolyte. Journal of Physical Chemistry C, 2015, 119, 5734-5738.	1.5	27
31	Irradiation toughening in a hierarchical structured alloy. Scripta Materialia, 2015, 108, 64-67.	2.6	2
32	Tunable states of interlayer cations in two-dimensional materials. Applied Physics Letters, 2014, 104, .	1.5	19
33	Long-term self-assembly of inorganic layered materials influenced by the local states of the interlayer cations. Physical Chemistry Chemical Physics, 2014, 16, 10959-10964.	1.3	20
34	Study of Decomposition Mechanism for Inorganic-Layered Saponite Nanoparticle. Radioisotopes, 2014, 63, 389-397.	0.1	1
35	Simultaneously increasing the magnetization and coercivity of bulk nanocomposite magnets via severe plastic deformation. Applied Physics Letters, 2013, 103, .	1.5	77
36	Molecular Mechanism of Heavily Adhesive Cs: Why Radioactive Cs is not Decontaminated from Soil. Journal of Physical Chemistry C, 2013, 117, 14075-14080.	1.5	56

#	Article	IF	CITATIONS
37	Study of Alkali-Metal Vapor Diffusion into Glass Materials. Japanese Journal of Applied Physics, 2013, 52, 086601.	0.8	5
38	Evidence for Enhanced Matrix Diffusion in Geological Environment. Journal of the Physical Society of Japan, 2013, 82, 014901.	0.7	7
39	Densification Dynamics of Gadolinium-Doped Ceria upon Sintering. Japanese Journal of Applied Physics, 2012, 51, 077301.	0.8	1
40	TRANSIENT STRUCTURAL EVOLUTION UPON THERMAL DEHYDRATION IN LAYERED-HECTORITE NANOPARTICLES. International Journal of Nanoscience, 2012, 11, 1240033.	0.4	5
41	Element-specific study of local segmental dynamics of polyethylene terephthalate upon physical aging. Journal of Chemical Physics, 2012, 137, 104906.	1.2	32
42	Influence of a magnetic field applied during the quenching process on the spin density and nanoscale structure of an amorphous Fe–B ribbon. Materials Letters, 2012, 87, 131-134.	1.3	3
43	INDICATION OF CESIUM ADSORPTION INTO ANGSTROM-SCALE OPEN SPACES IN SAPONITE CLAY MINERAL. International Journal of Nanoscience, 2012, 11, 1240034.	0.4	5
44	Rheological Mechanism of Long-Term Self-Assembly in Saponite Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 22954-22959.	1.5	26
45	Densification Dynamics of Gadolinium-Doped Ceria upon Sintering. Japanese Journal of Applied Physics, 2012, 51, 077301.	0.8	2
46	Origin of Organism-Dependent Biogenic Silica Quartz Formation. Journal of Physical Chemistry B, 2011, 115, 14874-14877.	1.2	25
47	Diffusion-Reaction of Water Molecules in Angstrom Pores as Basic Mechanism of Biogenic Quartz Formation. Journal of Physical Chemistry C, 2011, 115, 18131-18135.	1.5	25
48	Vacancies and atomic processes in intermetallics – From crystals to quasicrystals and bulk metallic glasses. Physica Status Solidi (B): Basic Research, 2011, 248, 2290-2299.	0.7	9
49	Free Volumes Associated with Sintering in Gadolinium Doped Ceria Solid Solutions. Journal of Nanomaterials, 2010, 2010, 1-5.	1.5	5
50	Local Atomic Structures at Grain Boundaries in Gadolinium Doped Cerium Oxides. High Temperature Materials and Processes, 2010, 29, 373-380.	0.6	3
51	Improving the interfacial structure of nanocomposite magnets on an atomic scale. Journal Physics D: Applied Physics, 2010, 43, 325003.	1.3	4
52	Nanocrystallization mechanism of amorphous Fe78B13Si9. Applied Physics Letters, 2009, 94, .	1.5	20
53	Study of nanocrystallization transitions in amorphous Nd <sub>9</sub> Fe <sub>85</sub> B <sub>6</sub> on an atomic scale. Journal Physics D: Applied Physics, 2009, 42, 215407.	1.3	2
54	Atomic-Scale Structural Evolution upon Crystallite Nucleation and Growth in Amorphous Fe <sub>78</sub> B <sub>13</sub> Si <sub>9</sub> . Japanese Journal of Applied Physics, 2009, 48, 085505.	0.8	2

#	Article	IF	CITATIONS
55	Mechanism of Bi Precipitation in Sn65.4Bi34.6Eutectic System. Japanese Journal of Applied Physics, 2009, 48, 020221.	0.8	3
56	Atomic-scale structural evolution in amorphous Nd9Fe85B6 subjected to severe plastic deformation at room temperature. Applied Physics Letters, 2009, 94, 231904.	1.5	21
57	Positron age–momentum correlation studies of free volumes in polymers. Radiation Physics and Chemistry, 2009, 78, 1085-1087.	1.4	10
58	Nano- and micro-scale free volume in ultrafine grained Cu–1wt.%Pb alloy deformed by equal channel angular pressing. Acta Materialia, 2009, 57, 5706-5717.	3.8	83
59	Probing the Elemental Environment around the Free Volume in Polymers with Positron Annihilation Ageâ´'Momentum Correlation Spectroscopy. Macromolecules, 2009, 42, 4853-4857.	2.2	50
60	Interlaboratory comparison of positron annihilation lifetime measurements for synthetic fused silica and polycarbonate. Journal of Applied Physics, 2008, 104, .	1.1	39
61	Atomic transfer through interfacial free volumes in Sn <sub>65.4</sub> Bi <sub>34.6</sub> eutectic systems. Journal of Physics Condensed Matter, 2008, 20, 395234.	0.7	4
62	Nanocrystallization-induced structural evolution of intergranular amorphous phase in Fe78B13Si9 alloy. Journal of Non-Crystalline Solids, 2007, 353, 1882-1885.	1.5	8
63	Positron annihilation spectroscopy in the study of quasicrystals and their related materials. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3455-3460.	0.8	3
64	Positronium Formed by Recombination of Positron-Electron Pairs in Polymers. Physical Review Letters, 2006, 96, 228302.	2.9	62
65	Pore interconnectivity of nanoclustering silica porous films as studied by positronium time-of-flight spectroscopy. Journal of Applied Physics, 2005, 98, 094307.	1.1	27
66	Positron annihilation studies of icosahedral quasicrystals and their approximants in the Al–Cu–Ru–(Si) alloy systems. Journal of Physics Condensed Matter, 2004, 16, 1899-1905.	0.7	4
67	Study of an Order-Disorder Phase Transition on an Atomic Scale: The Example of Decagonal Al-Ni-Co Quasicrystals. Physical Review Letters, 2004, 92, 127403.	2.9	36
68	Electric Field Assisted Reemission of Positrons from Silicon Carbide. Materials Science Forum, 2004, 445-446, 416-418.	0.3	2
69	Effect of Silica Coating on the Mechanical Properties of Gamma-Irradiated Polypropylene. Radioisotopes, 2004, 53, 617-620.	0.1	0
70	Positron annihilation study of defects and Si nanoprecipitation in sputter-deposited silicon oxide films. Chemical Physics Letters, 2003, 379, 359-363.	1.2	22
71	Characterization of Porous Silicate Low-k Films by Ellipsometric Porosimetry and Variable-energy Positron Annihilation Spectroscopy. Materials Research Society Symposia Proceedings, 2003, 788, 8191.	0.1	3
72	Positronium time-of-flight measurements of porous low-k films. Applied Physics Letters, 2003, 83, 4966-4968.	1.5	26

#	Article	lF	CITATIONS
73	Positron-trapping property in Al–Mg–Zn alloy system. Journal of Alloys and Compounds, 2002, 342, 306-309.	2.8	O
74	X-ray four-quadrant diamond phase-retarder system to compensate for off-axis and chromatic aberrations. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, 146-154.	0.3	32
75	Hard X-ray Magnetic Linear Dichroism Imaging. Transactions of the Magnetics Society of Japan, 2002, 2, 238-239.	0.5	1
76	X-ray double phase retarders to compensate for off-axis aberration. Journal of Synchrotron Radiation, 2001, 8, 33-37.	1.0	34
77	X-ray magnetic circular dichroism imaging with hard X-rays. Journal of Synchrotron Radiation, 2001, 8, 1021-1026.	1.0	5
78	Positron-Annihilation Studies of Frank-Kasper-Type Quasicrystals of the Mg–Zn–Ga–Al and the Mg–Zn–Rare-Earth System. Japanese Journal of Applied Physics, 2001, 40, 259-262.	0.8	8
79	Demonstration of X-ray linear dichroism imaging with hard X-rays. Journal of Synchrotron Radiation, 2000, 7, 368-373.	1.0	27
80	Development of a high-resolution x-ray imaging system with a charge-coupled-device detector coupled with crystal x-ray magnifiers. Review of Scientific Instruments, 2000, 71, 4449.	0.6	12
81	Positron-annihilation studies of stable Al-based icosahedral quasicrystals. Physical Review B, 1999, 59, 6712-6716.	1.1	40
82	Positron-Annihilation Study of Icosahedral AlPdMn Alloys. Physical Review Letters, 1997, 79, 2269-2272.	2.9	38
83	Study of self-assembly for mechanochemically-milled saponite nanoparticles. , 0, , .		1
84	Positron lifetime studies for Ce-based bulk metallic glasses. , 0, , .		1
85	Study of reversibility of self-assembly in saponite layered nanoparticles. , 0, , .		O