

# Kazuhiro Yasuda

## List of Publications by Year in descending order

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63  
papers

1,051  
citations

516561

16  
h-index

434063

31  
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63  
docs citations

63  
times ranked

904  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation damage in ion-irradiated CeO <sub>2</sub> and (Ce, Gd)O <sub>2</sub> sinters: Effect of the Gd content. Journal of Nuclear Materials, 2022, 564, 153667.	1.3	3
2	Raman spectroscopy study of damage in swift heavy ion-irradiated ceramics. Journal of Raman Spectroscopy, 2022, 53, 1614-1624.	1.2	4
3	Transition of Cationic Local Structures in Mg <sub>1-x</sub> Ni <sub>x</sub> Al <sub>2</sub> O <sub>4</sub> . Journal of Physical Chemistry C, 2021, 125, 5269-5277.	1.5	3
4	Ab Initio molecular dynamics study of threshold displacement energy in Zirconium Nitride. Journal of Nuclear Materials, 2021, 554, 153076.	1.3	3
5	Cathodoluminescence of cerium dioxide: Combined effects of the electron beam energy and sample temperature. Journal of Luminescence, 2020, 226, 117379.	1.5	4
6	Local structure investigations of accumulated damage in irradiated MgAl <sub>2</sub> O <sub>4</sub> . Journal of the American Ceramic Society, 2020, 103, 4654-4663.	1.9	6
7	Radiation-Induced Effects on Material Properties of Ceramics: Mechanical and Dimensional Properties. , 2020, , 153-185.		5
8	Strong flux pinning by columnar defects with directionally dependent morphologies in GdBCO-coated conductors irradiated with 80 MeV Xe ions. Japanese Journal of Applied Physics, 2020, 59, 023001.	0.8	5
9	Optical spectroscopy study of modifications induced in cerium dioxide by electron and ion irradiations. Philosophical Magazine, 2019, 99, 1695-1714.	0.7	9
10	A comparative characterization of defect structure in NiCo and NiFe equimolar solid solution alloys under in situ electron irradiation. Scripta Materialia, 2019, 166, 96-101.	2.6	5
11	Optical reflectivity of ion-irradiated cerium dioxide sinters. Journal of Applied Physics, 2019, 126, 175902.	1.1	7
12	Cathodoluminescence induced in oxides by high-energy electrons: Effects of beam flux, electron energy, and temperature. Journal of Luminescence, 2019, 208, 108-118.	1.5	5
13	Kyushu University Ultramicroscopy Platform for Nanomaterial Developing. Materia Japan, 2019, 58, 746-753.	0.1	0
14	X-ray absorption near edge structure and first-principles spectral investigations of cationic disorder in MgAl <sub>2</sub> O <sub>4</sub> induced by swift heavy ions. Physical Chemistry Chemical Physics, 2018, 20, 4962-4969.	1.3	7
15	Color-center formation and thermal recovery in X-ray and electron-irradiated magnesium aluminate spinel. Journal of Applied Physics, 2018, 124, .	1.1	5
16	Angular Behavior of J <sub>c</sub> in GdBCO-Coated Conductors With Crossed Columnar Defects Around ab Plane. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	8
17	Cathodo-luminescence of color centers induced in sapphire and yttria-stabilized zirconia by high-energy electrons. Journal of Applied Physics, 2017, 121, .	1.1	12
18	Reply to "Comments on "Evidence of the hydrogen release mechanism in bulk MgH <sub>2</sub> Ca". Scientific Reports, 2017, 7, 43720.	1.6	0

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19	Catalytic Effect of Potassium Compounds in Soot Oxidation. ChemCatChem, 2017, 9, 3513-3525.	1.8	30
20	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. Acta Materialia, 2017, 126, 182-193.	3.8	133
21	Raman spectroscopy study of damage induced in cerium dioxide by swift heavy ion irradiations. Journal of Applied Physics, 2017, 122, .	1.1	19
22	Structure of Defects and Microstructure Evolution in Oxide Ceramics “ Role of Electronic Excitation and Selective Displacement Damage. EPJ Web of Conferences, 2016, 115, 02004.	0.1	0
23	Three-Dimensional Imaging of a Long-Period Stacking Ordered Phase in Mg <sub>97</sub> Zn <sub>1</sub> Gd <sub>2</sub> Using High-Voltage Electron Microscopy. Materials Transactions, 2016, 57, 918-921.	0.4	3
24	Structure of ion tracks in ceria irradiated with high energy xenon ions. Progress in Nuclear Energy, 2016, 92, 306-312.	1.3	20
25	Color-center production and recovery in electron-irradiated magnesium aluminate spinel and ceria. Journal of Physics Condensed Matter, 2016, 28, 325901.	0.7	27
26	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. Scripta Materialia, 2016, 125, 5-9.	2.6	62
27	Temperature dependent evolution of dislocation loops in YSZ under high energy electron irradiation. Transactions of the Materials Research Society of Japan, 2016, 41, 319-323.	0.2	4
28	Evidence of the hydrogen release mechanism in bulk MgH <sub>2</sub> . Scientific Reports, 2015, 5, 8450.	1.6	66
29	Influence of Discontinuous Columnar Defects on Flux Pinning Properties in GdBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	11
30	<i>In situ</i> observation of structural transformation of gold nanorods under pulsed laser irradiation in an HVEM. Microscopy (Oxford, England), 2014, 63, 261-268.	0.7	12
31	Multi-scale 3D characterization of long period stacking ordered structure in Mg-Zn-Gd cast alloys. Microscopy (Oxford, England), 2014, 63, i25.2-i26.	0.7	1
32	Atomistic observation of electron irradiation-induced defects in CeO <sub>2</sub> . Materials Research Society Symposia Proceedings, 2013, 1514, 93-98.	0.1	5
33	Development of Novel Optical Fiber System for Cathodoluminescence Detection in High Voltage Transmission Electron Microscope. Materials Transactions, 2013, 54, 854-856.	0.4	6
34	Accumulation of radiation damage and disordering in MgAl <sub>2</sub> O <sub>4</sub> under swift heavy ion irradiation. International Journal of Materials Research, 2011, 102, 1082-1088.	0.1	20
35	Molecular dynamics simulations of oxygen Frenkel pairs in cerium dioxide. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2980-2983.	0.6	13
36	A combined environmental straining specimen holder for high-voltage electron microscopy. Ultramicroscopy, 2010, 110, 1420-1427.	0.8	5

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37	Frenkel pair accumulation induced crystallization of amorphous MgAl <sub>2</sub> O <sub>4</sub> . Journal of Nuclear Materials, 2008, 378, 188-192.	1.3	17
38	Atomistic simulation of point defects behavior in ceria. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 5120-5125.	0.6	41
39	High Resolution Observation of MgAl <sub>2</sub> O <sub>4</sub> Irradiated with 350 MeV Au ions. Materia Japan, 2008, 47, 614-614.	0.1	0
40	Electron Energy-Dependent Type of Dislocation Loops in CeO <sub>2</sub> . Materia Japan, 2008, 47, 612-612.	0.1	0
41	Electron Tomography Observation of FePt Nanogranular Thin Films Irradiated with 210 MeV Xe Ions. Materia Japan, 2008, 47, 639-639.	0.1	0
42	In-situ Transmission Electron Microscopy Observation of Electron-beam-induced Defect-clusters in CaF <sub>2</sub> Crystal. Materia Japan, 2008, 47, 647-647.	0.1	0
43	The atomic structure of disordered ion tracks in magnesium aluminate spinel. Jom, 2007, 59, 27-30.	0.9	4
44	Radiation Damage Effects in Insulators for Fusion Reactors: Microstructure Evolution in MgO-Al <sub>2</sub> O <sub>3</sub> System Oxide Crystals. Advances in Science and Technology, 2006, 45, 1961-1968.	0.2	0
45	Electron Irradiation Damage in Stabilized Cubic Zirconia. Materials Science Forum, 2005, 475-479, 1393-1396.	0.3	0
46	Aluminium phosphide as a eutectic grain nucleus in hypoeutectic Al-Si alloys. Journal of Electron Microscopy, 2004, 53, 361-369.	0.9	120
47	Effects of simultaneous displacive and ionizing radiations and of electric field on radiation damage in ionic crystals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 2257-2266.	1.1	8
48	TEM-Tomography Observation of Ion-Irradiated FePt Nano-Granular Films. Materia Japan, 2004, 43, 1003-1003.	0.1	0
49	Radiation-induced defect clusters in fully stabilized zirconia irradiated with ions and/or electrons. Journal of Nuclear Materials, 2003, 319, 74-80.	1.3	56
50	Structural Disordering in Magnesium Aluminate Spinel Compounds under Ion-Beam Irradiation. Materials Research Society Symposia Proceedings, 2003, 792, 395.	0.1	0
51	Radiation-Induced Defects in $\alpha$ -Alumina Irradiated with Ions under an Applied Electric Field. Materia Japan, 2003, 42, 906-906.	0.1	0
52	Thermal stability and kinetics of defects in magnesium aluminate spinel irradiated with fast neutrons. Journal of Nuclear Materials, 2000, 283-287, 937-941.	1.3	16
53	Production and stability of dislocation loops in an MgO-Al <sub>2</sub> O <sub>3</sub> system under concurrent irradiation with ions and electrons. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 107-114.	0.6	15
54	Defect Clusters in Ytria-stabilized Cubic-zirconia Irradiated with Ions and/or Electrons. Materia Japan, 2000, 39, 993-993.	0.1	0

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55	Irradiation effects in ceramics for fusion reactor applications. Journal of Nuclear Materials, 1999, 271-272, 560-568.	1.3	41
56	Ion beam channeling study on the damage accumulation in yttria-stabilized cubic zirconia. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 499-504.	0.6	51
57	Radiation damage effects in cubic-stabilized zirconia irradiated with 72 MeV I+ ions. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 358-365.	0.6	86
58	Mechanical properties and microstructure of $\hat{\pm}$ -alumina and magnesium aluminate spinel irradiated with He ions. Journal of Nuclear Materials, 1998, 258-263, 1856-1860.	1.3	6
59	Role of irradiation spectrum in the microstructural evolution of magnesium aluminate spinel. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 583-598.	0.7	35
60	Formation and Growth Process of Dislocation Loops in Zircalloys under Electron Irradiation. Journal of Nuclear Science and Technology, 1997, 34, 1079-1086.	0.7	7
61	In situ study of ion-beam induced lattice damage in calcium fluoride crystals. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 591-595.	0.6	11
62	Formation and Growth Process of Dislocation Loops in Zircalloys under Electron Irradiation.. Journal of Nuclear Science and Technology, 1997, 34, 1079-1086.	0.7	1
63	Universal method for evaluating work-hardening exponent of metals using ultra-microhardness tests. Acta Metallurgica Et Materialia, 1994, 42, 3909-3915.	1.9	8