Kazuhiro Yasuda

List of Publications by Year
in descending order

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63	1,051	516561 16	434063 31
papers	citations	h-index	g-index

63	63	63	904
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. Acta Materialia, 2017, 126, 182-193.	3.8	133
2	Aluminium phosphide as a eutectic grain nucleus in hypoeutectic Al-Si alloys. Journal of Electron Microscopy, 2004, 53, 361-369.	0.9	120
3	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
4	Evidence of the hydrogen release mechanism in bulk MgH2. Scientific Reports, 2015, 5, 8450.	1.6	66
5	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. Scripta Materialia, 2016, 125, 5-9.	2.6	62
6	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
7	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
8	Irradiation effects in ceramics for fusion reactor applications. Journal of Nuclear Materials, 1999, 271-272, 560-568.	1.3	41
9	Atomistic simulation of point defects behavior in ceria. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 5120-5125.	0.6	41
10	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
11	Catalytic Effect of Potassium Compounds in Soot Oxidation. ChemCatChem, 2017, 9, 3513-3525.	1.8	30
12	Color-center production and recovery in electron-irradiated magnesium aluminate spinel and ceria. Journal of Physics Condensed Matter, 2016, 28, 325901.	0.7	27
13	Accumulation of radiation damage and disordering in MgAl₂O₄ under swift heavy ion irradiation. International Journal of Materials Research, 2011, 102, 1082-1088.	0.1	20
14	Structure of ion tracks in ceria irradiated with high energy xenon ions. Progress in Nuclear Energy, 2016, 92, 306-312.	1.3	20
15	Raman spectroscopy study of damage induced in cerium dioxide by swift heavy ion irradiations. Journal of Applied Physics, 2017, 122, .	1.1	19
16	Frenkel pair accumulation induced crystallization of amorphous MgAl2O4. Journal of Nuclear Materials, 2008, 378, 188-192.	1.3	17
17	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
18	Production and stability of dislocation loops in an MgOâ€“Al2O3 system under concurrent irradiation with ions and electrons. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 107-114.	0.6	15

#	Article	IF	Citations
19	Molecular dynamics simulations of oxygen Frenkel pairs in cerium dioxide. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2980-2983.	0.6	13
20	In situobservation of structural transformation of gold nanorods under pulsed laser irradiation in an HVEM. Microscopy (Oxford, England), 2014, 63, 261-268.	0.7	12
21	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
22	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
23	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
24	Optical spectroscopy study of modifications induced in cerium dioxide by electron and ion irradiations. Philosophical Magazine, 2019, 99, 1695-1714.	0.7	9
25	Universal method for evaluating work-hardening exponent of metals using ultra-microhardness tests. Acta Metallurgica Et Materialia, 1994, 42, 3909-3915.	1.9	8
26	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
27	Angular Behavior of Jc in GdBCO-Coated Conductors With Crossed Columnar Defects Around ab Plane. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	8
28	Formation and Growth Process of Dislocation Loops in Zircaloys under Electron Irradiation. Journal of Nuclear Science and Technology, 1997, 34, 1079-1086.	0.7	7
29	X-ray absorption near edge structure and first-principles spectral investigations of cationic disorder in MgAl₂O₄ induced by swift heavy ions. Physical Chemistry Chemical Physics, 2018, 20, 4962-4969.	1.3	7
30	Optical reflectivity of ion-irradiated cerium dioxide sinters. Journal of Applied Physics, 2019, 126, 175902.	1.1	7
31	Mechanical properties and microstructure of Î±-alumina and magnesium aluminate spinel irradiated with He ions. Journal of Nuclear Materials, 1998, 258-263, 1856-1860.	1.3	6
32	Development of Novel Optical Fiber System for Cathodoluminescence Detection in High Voltage Transmission Electron Microscope. Materials Transactions, 2013, 54, 854-856.	0.4	6
33	Local structure investigations of accumulated damage in irradiated MgAl₂O₄. Journal of the American Ceramic Society, 2020, 103, 4654-4663.	1.9	6
34	A combined environmental straining specimen holder for high-voltage electron microscopy. Ultramicroscopy, 2010, 110, 1420-1427.	0.8	5
35	Atomistic observation of electron irradiation-induced defects in CeO₂. Materials Research Society Symposia Proceedings, 2013, 1514, 93-98.	0.1	5
36	Color-center formation and thermal recovery in X-ray and electron-irradiated magnesium aluminate spinel. Journal of Applied Physics, 2018, 124, .	1.1	5

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37	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
38	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
39	Radiation-Induced Effects on Material Properties of Ceramics: Mechanical and Dimensional Properties. , 2020, , 153-185.		5
40	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
41	The atomic structure of disordered ion tracks in magnesium aluminate spinel. Jom, 2007, 59, 27-30.	0.9	4
42	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
43	Cathodoluminescence of cerium dioxide: Combined effects of the electron beam energy and sample temperature. Journal of Luminescence, 2020, 226, 117379.	1.5	4
44	Raman spectroscopy study of damage in swift heavy ionâ€irradiated ceramics. Journal of Raman Spectroscopy, 2022, 53, 1614-1624.	1.2	4
45	Three-Dimensional Imaging of a Long-Period Stacking Ordered Phase in Mg₉₇Zn₁Gd₂ Using High-Voltage Electron Microscopy. Materials Transactions, 2016, 57, 918-921.	0.4	3
46	Transition of Cationic Local Structures in Mg1-xNixAl2O4. Journal of Physical Chemistry C, 2021, 125, 5269-5277.	1.5	3
47	Ab Initio molecular dynamics study of threshold displacement energy in Zirconium Nitride. Journal of Nuclear Materials, 2021, 554, 153076.	1.3	3
48	Radiation damage in ion-irradiated CeO2 and (Ce, Gd)O2 sinters: Effect of the Gd content. Journal of Nuclear Materials, 2022, 564, 153667.	1.3	3
49	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
50	Formation and Growth Process of Dislocation Loops in Zircaloys under Electron Irradiation.. Journal of Nuclear Science and Technology, 1997, 34, 1079-1086.	0.7	1
51	Structural Disordering in Magnesium Aluminate Spinel Compounds under Ion-Beam Irradiation. Materials Research Society Symposia Proceedings, 2003, 792, 395.	0.1	0
52	Electron Irradiation Damage in Stabilized Cubic Zirconia. Materials Science Forum, 2005, 475-479, 1393-1396.	0.3	0
53	Radiation Damage Effects in Insulators for Fusion Reactors: Microstructure Evolution in MgO-Al₂O₃ System Oxide Crystals. Advances in Science and Technology, 2006, 45, 1961-1968.	0.2	0
54	High Resolution Observation of MgAl₂O₄ Irradiated with 350 MeV Au ions. Materia Japan, 2008, 47, 614-614.	0.1	0

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55	Structure of Defects and Microstructure Evolution in Oxide Ceramics â€“ Role of Electronic Excitation and Selective Displacement Damage. EPJ Web of Conferences, 2016, 115, 02004.	0.1	0
56	Reply to â€˜Comments on â€œEvidence of the hydrogen release mechanism in bulk MgH2â€â€™. Scientific Reports, 2017, 7, 43720.	1.6	0
57	Defect Clusters in Yttria-stabilized Cubic-zirconia Irradiated with Ions and/or Electrons. Materia Japan, 2000, 39, 993-993.	0.1	0
58	Radiation-Induced Defects in α-Alumina Irradiated with Ions under an Applied Electric Field. Materia Japan, 2003, 42, 906-906.	0.1	0
59	TEM-Tomography Observation of Ion-Irradiated FePt Nano-Granular Films. Materia Japan, 2004, 43, 1003-1003.	0.1	0
60	Electron Enrgy-Dependent Type of Dislocation Loops in CeO₂. Materia Japan, 2008, 47, 612-612.	0.1	0
61	Electron Tomography Observation of FePt Nanogranular Thin Films Irradiated with 210 MeV Xe Ions. Materia Japan, 2008, 47, 639-639.	0.1	0
62	In-situ Transmission Electron Microscopy Observation of Electron-beam-induced Defect-clusters in CaF₂ Crystal. Materia Japan, 2008, 47, 647-647.	0.1	0
63	Kyushu University Ultramicroscopy Platform for Nanomaterial Developing. Materia Japan, 2019, 58, 746-753.	0.1	0