Mamoru Kitaura

List of Publications by Year in Descending Order

86 papers	1,071 citations	18 h-index	29 g-index
87 ext. papers	1,204 ext. citations	2.6 avg, IF	3.91 L-index

#	Paper	IF	Citations
86	Characterization of imperfections in scintillator crystals using gamma-ray induced positron annihilation lifetime spectroscopy. *Optical Materials: X*, **2022**, 14, 100156	1.7	1
85	Electronic Band Transitions in □Ge3N4. *Electronic Materials Letters*, **2021**, 17, 315-323	2.9	3
84	Crystal structure of silver carbonate iodide Ag(CO)I. *Acta Crystallographica Section E: Crystallographic Communications*, **2021**, 77, 734-738	0.7	1
83	Structural analyses of Gd3(Al,Ga)5O12 garnet solid solutions via X-ray and UV absorption spectroscopy experiments for Gd atoms. *Journal of Alloys and Compounds*, **2021**, 867, 159055	5.7	1
82	Superionic Ag Conductor Ag(CO)I. *Inorganic Chemistry*, **2021**, 60, 2931-2938	5.1	3
81	Defects induced by He+ irradiation in □Si3N4. *Journal of Luminescence*, **2021**, 237, 118132	3.8	5
80	Local structure analysis of Sb, Bi, and Ag dopant atoms in Mg2Si semiconductor by x-ray absorption spectroscopy and first-principles calculation. *Journal of Applied Physics*, **2021**, 130, 245105	2.5	0
79	Visualizing cation vacancies in Ce:Gd3Al2Ga3O12 scintillators by gamma-ray-induced positron annihilation lifetime spectroscopy. *Applied Physics Express*, **2020**, 13, 085505	2.4	4
78	Effects of Ta doping and irradiation with He+ ions on photoluminescence of MgAl2O4 spinel ceramics. *Journal of the European Ceramic Society*, **2020**, 40, 3215-3221	6	4
77	Luminescence properties of scintillators in soft X-ray region. *Journal of Luminescence*, **2020**, 219, 116850	3.8	3
76	The determining factor of the luminescence energies of vanadate phosphors. *Journal of the Ceramic Society of Japan*, **2019**, 127, 627-635	1	3
75	Local environment of W and Mo atoms in CaW1□ Mo x O4 (x = 0.12) solid solution studied by X-ray structural analyzes. *Japanese Journal of Applied Physics*, **2019**, 58, 120602	1.4	2
74	Investigation of luminescence quenching and persistent luminescence in Ce3+ doped (Gd,Y)3(Al,Ga)5O12 garnet using vacuum referred binding energy diagram. *Journal of Luminescence*, **2018**, 198, 418-426	3.8	18
73	Visualizing hidden electron trap levels in Gd3Al2Ga3O12:Ce crystals using a mid-infrared free-electron laser. *Applied Physics Letters*, **2018**, 112, 031112	3.4	4
72	Shallow electron traps formed by Gd2+ ions adjacent to oxygen vacancies in cerium-doped Gd3Al2Ga3O12 crystals. *Applied Physics Letters*, **2018**, 113, 041906	3.4	8
71	Comprehensive Study on Ce-Doped (Gd, La)2Si2O7 Scintillator. *IEEE Transactions on Nuclear Science* , **2018**, 65, 2136-2139	1.7	6
70	Energy location of Ce3+ 4f level and majority carrier type in Gd3Al2Ga3O12:Ce crystals studied by surface photovoltage spectroscopy. *Applied Physics Letters*, **2017**, 110, 251101	3.4	7

69	Impurity position and lattice distortion in a Mn-doped Bi2Te3 topological insulator investigated by x-ray fluorescence holography and x-ray absorption fine structure. *Physical Review B*, **2017**, 96,	3.3	41
68	Excitation process of Ce 3+ and Eu 2+ ions doped in SrGa 2 S 4 crystals under the condition of multiplication of electronic excitations. *Journal of Luminescence*, **2016**, 172, 243-248	3.8	3
67	Probing shallow electron traps in cerium-doped Gd3Al2Ga3O12scintillators by UV-induced absorption spectroscopy. *Applied Physics Express*, **2016**, 9, 072602	2.4	22
66	Two-band luminescence from an intrinsic defect in spherical and terraced MgO nanoparticles. *Applied Physics Letters*, **2015**, 106, 183106	3.4	20
65	Optical properties and electronic structure of Lu2SiO5 crystals doped with cerium ions: Thermally-activated energy transfer from host to activator. *Journal of Luminescence*, **2015**, 158, 226-230	3.8	13
64	Interplay between disorder and inversion symmetry: Extreme enhancement of the mobility near the Weyl point in BiTeI. *Physical Review B*, **2015**, 92,	3.3	3
63	Luminescent property and mechanism of ZnAl2O4 ultraviolet emitting phosphor. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 797-800		6
62	Photoluminescence studies on energy transfer processes in cerium-doped Gd3Al2Ga3O12 crystals. *Optical Materials*, **2015**, 41, 45-48	3.3	18
61	Comparative Study on Optical Properties of YPO4: Mn, Zr Phosphor by Experiment and Calculation **2015**, 217-235		
60	An x-ray fluorescence holographic study on a Bi2Te3Mn0.1topological insulator. *Journal of Physics: Conference Series*, **2014**, 502, 012024	0.3	3
59	Time-resolved photoluminescence spectroscopy of Ce:Gd3Al2Ga3O12crystals. *Japanese Journal of Applied Physics*, **2014**, 53, 05FK01	1.4	9
58	Phosphorescence of Ce-doped Gd3Al2Ga3O12 crystals studied using luminescence spectroscopy. *Journal of Applied Physics*, **2014**, 115, 083517	2.5	32
57	Magnetic-field-induced transitions and evolution of magnetotransport properties in quasi-two-dimensional KMo6O17 in the charge-density-wave phase. *Physical Review B*, **2014**, 89,	3.3	6
56	Conduction-band electronic structure of 1T-TaS2 revealed by angle-resolved inverse-photoemission spectroscopy. *Physical Review B*, **2014**, 89,	3.3	20
55	Design and performance of a new VIS-VUV photoluminescence beamline at UVSOR-III. *Journal of Synchrotron Radiation*, **2014**, 21, 452-5	2.4	20
54	Dirac versus Weyl fermions in topological insulators: Adler-Bell-Jackiw anomaly in transport phenomena. *Physical Review Letters*, **2013**, 111, 246603	7.4	293
53	Topological phase transitions driven by magnetic phase transitions in Fe(x)Bi2Te3 (0≤x≤0.1) single crystals. *Physical Review Letters*, **2013**, 110, 136601	7.4	26
52	Comparative study of Auger-free luminescence of Rb2ZnCl4 crystals between experiment and calculation. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2013**, 10, 993-996		2

51	Nature of magnetic impurity induced superparamagnetism and anomalous Hall effect in FeSi2 single crystals. *Physica B: Condensed Matter*, **2012**, 407, 126-130	2.8	4
50	Auger-free luminescence due to interatomic p transition and self-trapped exciton luminescence in Rb2ZnCl4 crystals. *Journal of Luminescence*, **2012**, 132, 2639-2642	3.8	5
49	Effects of disorder in FexTi(Se1ySy)2single crystals. *Journal of Physics: Conference Series*, **2012**, 400, 032038	0.3	1
48	Electronic States on Bi2Te3 Studied by Angle-Resolved Photoelectron Spectroscopy Using Synchrotron Radiation. *E-Journal of Surface Science and Nanotechnology*, **2012**, 10, 117-120	0.7	0
47	Electron Spin Resonance Study on Local Structure of Manganese Ions Doped in Gamma-Aluminum Oxynitride Phosphors. *Journal of Light and Visual Environment*, **2012**, 36, 6-9		5
46	Electronic Structure and Auger-Free Luminescence in Cs2ZnCl4Crystals. *Journal of the Physical Society of Japan*, **2012**, 81, 114704	1.5	9
45	Surface electronic structure of Bi2Te3(111) studied by high-resolution photoelectron spectroscopy using synchrotron radiation. *Physical Review B*, **2012**, 85,	3.3	8
44	Transport properties of defect-controlled Bi2Te3single crystals: fingerprint of surface Dirac electrons. *Journal of Physics: Conference Series*, **2012**, 400, 042033	0.3	1
43	Sondheimer oscillation as a signature of surface Dirac fermions. *Physical Review B*, **2011**, 84,	3.3	13
42	Evolution of surface states in Bi1xSbx alloys across the topological phase transition. *Physical Review B*, **2011**, 83,	3.3	30
41	Valence electronic structure of FeSi2 single crystal investigated by photoelectron spectroscopy using synchrotron radiation. *Physics Procedia*, **2011**, 11, 63-66		1
40	Valence electronic states of p-type FeSi2 single crystal studied by high-resolution and resonant photoelectron spectroscopy. *Applied Physics Letters*, **2011**, 99, 022107	3.4	3
39	Two-component dynamic responses of vortex matter near the vortex melting line in superconducting La1.86Sr0.14CuO4single crystals. *Superconductor Science and Technology*, **2011**, 24, 055014	3.1	
38	Interplay between the Kondo effect and randomness: Griffiths phase in MxTiSe2 (M=Co, Ni, and Fe) single crystals. *Physical Review B*, **2010**, 82,	3.3	17
37	Characterization of zinc magnesium stannate phosphor fine particles synthesized by electromagnetic wave heating. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2010**, 28, C2C20-C2C25	1.3	2
36	Excitation processes of trivalent cerium ions in calcium thiogallate crystals by hot photocarriers. *IOP Conference Series: Materials Science and Engineering*, **2010**, 15, 012090	0.4	
35	P1–1: Cathodoluminescence of ZnAl2O4 phosphor for the application of UV emission devices **2010**,		2
34	Anomalous Transport Properties in Fe Intercalation Compound Fe x TiSe2 Single Crystals. *Journal of Low Temperature Physics*, **2010**, 161, 375-386	1.3	12

33	Photoluminescence enhancement in manganese-doped magnesium stannate phosphors synthesized by millimeter-wave irradiation. *Radiation Measurements*, **2010**, 45, 503-505	1.5	4
32	Photoluminescence of forsterite single crystals excited by vacuum ultraviolet radiation. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 236-239		3
31	Is Auger-free luminescence present in CeF3?. *Journal of Luminescence*, **2009**, 129, 984-987	3.8	3
30	Optical Absorption of CdI2Single Molecule and Clusters Incorporated into Zeolite Na-FAU. *Journal of the Physical Society of Japan*, **2009**, 78, 104704	1.5	1
29	Improvement of Photoluminescence Properties in YPO4:Mn2+Phosphor Codoped with Tetraval entcations. *Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers*, **2009**, 63, 1418-1422	0	
28	Optical anisotropy and electronic structures of CdMoO4 and CdWO4 crystals: Polarized reflection measurements, x-ray photoelectron spectroscopy, and electronic structure calculations. *Physical Review B*, **2008**, 77,	3.3	59
27	Photoluminescence Enhancement in ScPO4:Zr4+, Mn2+ Phosphor. *Journal of Light and Visual Environment*, **2008**, 32, 103-106		0
26	Luminescence properties of piezoelectric single crystals with langasite structure. *Journal of Luminescence*, **2007**, 122-123, 205-207	3.8	12
25	Absorption and luminescence in PbCl2: I□crystals. *Journal of Luminescence*, **2007**, 122-123, 412-414	3.8	
24	Temperature dependence of long-lasting afterglow in SrAl2O4:Eu,Dy phosphor. *Journal of Luminescence*, **2007**, 122-123, 509-511	3.8	21
23	Effect of Zr4+Addition on Photoluminescence Properties of YPO4:Mn2+. *Japanese Journal of Applied Physics*, **2007**, 46, 6691-6695	1.4	9
22	Origin of photocarrier traps in photorefractive □iIO3 crystals by optical measurement and cluster calculation. *Physical Review B*, **2006**, 73,	3.3	5
21	Life-time resolved emission spectra in CdCl2 crystals. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 53-56		6
20	Fundamental optical properties and electronic structure of langasite La3Ga5SiO14 crystals. *Physical Review B*, **2004**, 69,	3.3	18
19	Reflection Spectrum and Auger-Free Luminescence in Molecular Ionic Crystals of Cs2ZnCl4. *Journal of the Physical Society of Japan*, **2003**, 72, 2400-2401	1.5	7
18	Luminescence properties and afterglow in spinel crystals doped with trivalent Tb ions. *Journal of Luminescence*, **2003**, 102-103, 590-596	3.8	34
17	Multiplication Processes of Electronic Excitations in PbCl2Crystals Excited by Vacuum Ultraviolet Radiation. *Journal of the Physical Society of Japan*, **2003**, 72, 730-734	1.5	4
16	Optical Spectra and Electronic Structures of Forsterite (□Mg2SiO4) Single Crystals. *Journal of the Physical Society of Japan*, **2002**, 71, 2736-2741	1.5	4

15	Vacuum Ultraviolet Reflection Spectra of Ethyl-Ammonium Halides and Ethyl-Ammonium Cadmium Halides. *Journal of the Physical Society of Japan*, **2002**, 71, 1206-1207	1.5	
14	Origin of the Luminescence Bands in PbCl2Crystals Induced by UV Light at Low Temperatures. *Journal of the Physical Society of Japan*, **2001**, 70, 2462-2467	1.5	5
13	Optical Spectra of Inorganic-Organic Compounds (C2H5NH3)2CdCl4 in 3□0 eV Range. *Journal of the Physical Society of Japan*, **2001**, 70, 3424-3427	1.5	4
12	Thermal Stability of Trapped Holes in PbCl2Crystals. *Journal of the Physical Society of Japan*, **2000**, 69, 2360-2361	1.5	5
11	Optical spectra and electronic structures of lead halides. *Physical Review B*, **2000**, 61, 15731-15737	3.3	43
10	Thermal behavior of holes in lead-chloride crystal. *Radiation Effects and Defects in Solids*, **1999**, 150, 115-119	0.9	1
9	Photoluminescence of orthorhombic and cubic single crystals. *Journal of Physics Condensed Matter*, **1999**, 11, 3003-3011	1.8	7
8	Exciton Transitions in Orthorhombic and Cubic PbF2. *Journal of the Physical Society of Japan*, **1998**, 67, 3320-3321	1.5	7
7	Self-trapped exciton and recombination luminescence in PbCl2, PbBr2 and their mixed crystals. *Journal of Luminescence*, **1997**, 72-74, 883-884	3.8	21
6	Optical Spectra of SnI2Crystal. *Journal of the Physical Society of Japan*, **1996**, 65, 606-609	1.5	2
5	Luminescence due to dimer type self-trapped excitons in lead halides. *Journal of Electron Spectroscopy and Related Phenomena*, **1996**, 79, 171-174	1.7	30
4	Decay Time Studies on UV-Luminescence in CdBr2?CdCl2 Mixed Crystals. *Journal of Electron Spectroscopy and Related Phenomena*, **1996**, 79, 175-178	1.7	7
3	Polarization of self-trapped exciton luminescence in CdBr2. *Journal of Luminescence*, **1995**, 66-67, 438-442	3.8	3
2	Nonradiative branching processes of self-trapped excitons in cadmium halide crystals **1995**,		13
1	Determination of Optical Gain of Self-Trapped Exciton Luminescence in CdI2. *Journal of the Physical Society of Japan*, **1994**, 63, 4648-4654	1.5	10