

Mamoru Kitaura

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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	Dirac versus Weyl fermions in topological insulators: Adler-Bell-Jackiw anomaly in transport phenomena. <i>Physical Review Letters</i> , 2013 , 111, 246603	7.4	293
85	Optical anisotropy and electronic structures of CdMoO ₄ and CdWO ₄ crystals: Polarized reflection measurements, x-ray photoelectron spectroscopy, and electronic structure calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	59
84	Optical spectra and electronic structures of lead halides. <i>Physical Review B</i> , 2000 , 61, 15731-15737	3.3	43
83	Impurity position and lattice distortion in a Mn-doped Bi ₂ Te ₃ topological insulator investigated by x-ray fluorescence holography and x-ray absorption fine structure. <i>Physical Review B</i> , 2017 , 96,	3.3	41
82	Luminescence properties and afterglow in spinel crystals doped with trivalent Tb ions. <i>Journal of Luminescence</i> , 2003 , 102-103, 590-596	3.8	34
81	Phosphorescence of Ce-doped Gd ₃ Al ₂ Ga ₃ O ₁₂ crystals studied using luminescence spectroscopy. <i>Journal of Applied Physics</i> , 2014 , 115, 083517	2.5	32
80	Evolution of surface states in Bi _{1-x} Sb _x alloys across the topological phase transition. <i>Physical Review B</i> , 2011 , 83,	3.3	30
79	Luminescence due to dimer type self-trapped excitons in lead halides. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 79, 171-174	1.7	30
78	Topological phase transitions driven by magnetic phase transitions in Fe(x)Bi ₂ Te ₃ (0 ≤ x ≤ 1) single crystals. <i>Physical Review Letters</i> , 2013 , 110, 136601	7.4	26
77	Probing shallow electron traps in cerium-doped Gd ₃ Al ₂ Ga ₃ O ₁₂ scintillators by UV-induced absorption spectroscopy. <i>Applied Physics Express</i> , 2016 , 9, 072602	2.4	22
76	Self-trapped exciton and recombination luminescence in PbCl ₂ , PbBr ₂ and their mixed crystals. <i>Journal of Luminescence</i> , 1997 , 72-74, 883-884	3.8	21
75	Temperature dependence of long-lasting afterglow in SrAl ₂ O ₄ :Eu,Dy phosphor. <i>Journal of Luminescence</i> , 2007 , 122-123, 509-511	3.8	21
74	Two-band luminescence from an intrinsic defect in spherical and terraced MgO nanoparticles. <i>Applied Physics Letters</i> , 2015 , 106, 183106	3.4	20
73	Conduction-band electronic structure of 1T-TaS ₂ revealed by angle-resolved inverse-photoemission spectroscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	20
72	Design and performance of a new VIS-VUV photoluminescence beamline at UVSOR-III. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 452-5	2.4	20
71	Investigation of luminescence quenching and persistent luminescence in Ce ³⁺ doped (Gd,Y) ₃ (Al,Ga) ₅ O ₁₂ garnet using vacuum referred binding energy diagram. <i>Journal of Luminescence</i> , 2018 , 198, 418-426	3.8	18
70	Photoluminescence studies on energy transfer processes in cerium-doped Gd ₃ Al ₂ Ga ₃ O ₁₂ crystals. <i>Optical Materials</i> , 2015 , 41, 45-48	3.3	18

69	Fundamental optical properties and electronic structure of langasite $\text{La}_3\text{Ga}_5\text{SiO}_{14}$ crystals. <i>Physical Review B</i> , 2004 , 69,	3.3	18
68	Interplay between the Kondo effect and randomness: Griffiths phase in MxTiSe_2 (M=Co, Ni, and Fe) single crystals. <i>Physical Review B</i> , 2010 , 82,	3.3	17
67	Optical properties and electronic structure of Lu_2SiO_5 crystals doped with cerium ions: Thermally-activated energy transfer from host to activator. <i>Journal of Luminescence</i> , 2015 , 158, 226-230 ^{3.8}	3.8	13
66	Sondheimer oscillation as a signature of surface Dirac fermions. <i>Physical Review B</i> , 2011 , 84,	3.3	13
65	Nonradiative branching processes of self-trapped excitons in cadmium halide crystals 1995 ,		13
64	Anomalous Transport Properties in Fe Intercalation Compound Fe_xTiSe_2 Single Crystals. <i>Journal of Low Temperature Physics</i> , 2010 , 161, 375-386	1.3	12
63	Luminescence properties of piezoelectric single crystals with langasite structure. <i>Journal of Luminescence</i> , 2007 , 122-123, 205-207	3.8	12
62	Determination of Optical Gain of Self-Trapped Exciton Luminescence in CdI_2 . <i>Journal of the Physical Society of Japan</i> , 1994 , 63, 4648-4654	1.5	10
61	Time-resolved photoluminescence spectroscopy of $\text{Ce:Gd}_3\text{Al}_2\text{Ga}_3\text{O}_{12}$ crystals. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FK01	1.4	9
60	Electronic Structure and Auger-Free Luminescence in Cs_2ZnCl_4 Crystals. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 114704	1.5	9
59	Effect of Zr^{4+} Addition on Photoluminescence Properties of $\text{YPO}_4:\text{Mn}^{2+}$. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 6691-6695	1.4	9
58	Shallow electron traps formed by Gd^{2+} ions adjacent to oxygen vacancies in cerium-doped $\text{Gd}_3\text{Al}_2\text{Ga}_3\text{O}_{12}$ crystals. <i>Applied Physics Letters</i> , 2018 , 113, 041906	3.4	8
57	Surface electronic structure of $\text{Bi}_2\text{Te}_3(111)$ studied by high-resolution photoelectron spectroscopy using synchrotron radiation. <i>Physical Review B</i> , 2012 , 85,	3.3	8
56	Energy location of Ce^{3+} 4f level and majority carrier type in $\text{Gd}_3\text{Al}_2\text{Ga}_3\text{O}_{12}:\text{Ce}$ crystals studied by surface photovoltage spectroscopy. <i>Applied Physics Letters</i> , 2017 , 110, 251101	3.4	7
55	Reflection Spectrum and Auger-Free Luminescence in Molecular Ionic Crystals of Cs_2ZnCl_4 . <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 2400-2401	1.5	7
54	Exciton Transitions in Orthorhombic and Cubic PbF_2 . <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 3320-3321	1.5	7
53	Photoluminescence of orthorhombic and cubic single crystals. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 3003-3011	1.8	7
52	Decay Time Studies on UV-Luminescence in $\text{CdBr}_2/\text{CdCl}_2$ Mixed Crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 79, 175-178	1.7	7

51	Comprehensive Study on Ce-Doped (Gd, La) ₂ Si ₂ O ₇ Scintillator. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 2136-2139	1.7	6
50	Luminescent property and mechanism of ZnAl ₂ O ₄ ultraviolet emitting phosphor. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 797-800		6
49	Magnetic-field-induced transitions and evolution of magnetotransport properties in quasi-two-dimensional KMo ₆ O ₁₇ in the charge-density-wave phase. <i>Physical Review B</i> , 2014 , 89,	3.3	6
48	Life-time resolved emission spectra in CdCl ₂ crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 53-56		6
47	Auger-free luminescence due to interatomic p-d transition and self-trapped exciton luminescence in Rb ₂ ZnCl ₄ crystals. <i>Journal of Luminescence</i> , 2012 , 132, 2639-2642	3.8	5
46	Electron Spin Resonance Study on Local Structure of Manganese Ions Doped in Gamma-Aluminum Oxynitride Phosphors. <i>Journal of Light and Visual Environment</i> , 2012 , 36, 6-9		5
45	Origin of photocarrier traps in photorefractive BiIO ₃ crystals by optical measurement and cluster calculation. <i>Physical Review B</i> , 2006 , 73,	3.3	5
44	Origin of the Luminescence Bands in PbCl ₂ Crystals Induced by UV Light at Low Temperatures. <i>Journal of the Physical Society of Japan</i> , 2001 , 70, 2462-2467	1.5	5
43	Thermal Stability of Trapped Holes in PbCl ₂ Crystals. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 2360-2361	1.5	5
42	Defects induced by He ⁺ irradiation in Bi ₃ N ₄ . <i>Journal of Luminescence</i> , 2021 , 237, 118132	3.8	5
41	Visualizing cation vacancies in Ce:Gd ₃ Al ₂ Ga ₃ O ₁₂ scintillators by gamma-ray-induced positron annihilation lifetime spectroscopy. <i>Applied Physics Express</i> , 2020 , 13, 085505	2.4	4
40	Effects of Ta doping and irradiation with He ⁺ ions on photoluminescence of MgAl ₂ O ₄ spinel ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3215-3221	6	4
39	Visualizing hidden electron trap levels in Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce crystals using a mid-infrared free-electron laser. <i>Applied Physics Letters</i> , 2018 , 112, 031112	3.4	4
38	Nature of magnetic impurity induced superparamagnetism and anomalous Hall effect in BiFeSi ₂ single crystals. <i>Physica B: Condensed Matter</i> , 2012 , 407, 126-130	2.8	4
37	Photoluminescence enhancement in manganese-doped magnesium stannate phosphors synthesized by millimeter-wave irradiation. <i>Radiation Measurements</i> , 2010 , 45, 503-505	1.5	4
36	Multiplication Processes of Electronic Excitations in PbCl ₂ Crystals Excited by Vacuum Ultraviolet Radiation. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 730-734	1.5	4
35	Optical Spectra of Inorganic-Organic Compounds (C ₂ H ₅ NH ₃) ₂ CdCl ₄ in 380 eV Range. <i>Journal of the Physical Society of Japan</i> , 2001 , 70, 3424-3427	1.5	4
34	Optical Spectra and Electronic Structures of Forsterite (Mg ₂ SiO ₄) Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2002 , 71, 2736-2741	1.5	4

33	The determining factor of the luminescence energies of vanadate phosphors. <i>Journal of the Ceramic Society of Japan</i> , 2019 , 127, 627-635	1	3
32	Excitation process of Ce 3+ and Eu 2+ ions doped in SrGa 2 S 4 crystals under the condition of multiplication of electronic excitations. <i>Journal of Luminescence</i> , 2016 , 172, 243-248	3.8	3
31	An x-ray fluorescence holographic study on a Bi2Te3Mn0.1topological insulator. <i>Journal of Physics: Conference Series</i> , 2014 , 502, 012024	0.3	3
30	Interplay between disorder and inversion symmetry: Extreme enhancement of the mobility near the Weyl point in BiTeI. <i>Physical Review B</i> , 2015 , 92,	3.3	3
29	Photoluminescence of forsterite single crystals excited by vacuum ultraviolet radiation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 236-239		3
28	Is Auger-free luminescence present in CeF3?. <i>Journal of Luminescence</i> , 2009 , 129, 984-987	3.8	3
27	Valence electronic states of p-type FFeSi2 single crystal studied by high-resolution and resonant photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2011 , 99, 022107	3.4	3
26	Polarization of self-trapped exciton luminescence in CdBr2. <i>Journal of Luminescence</i> , 1995 , 66-67, 438-442	3.2	3
25	Luminescence properties of scintillators in soft X-ray region. <i>Journal of Luminescence</i> , 2020 , 219, 116850	3.8	3
24	Electronic Band Transitions in EGe3N4. <i>Electronic Materials Letters</i> , 2021 , 17, 315-323	2.9	3
23	Superionic Ag Conductor Ag(CO)I. <i>Inorganic Chemistry</i> , 2021 , 60, 2931-2938	5.1	3
22	Comparative study of Auger-free luminescence of Rb2ZnCl4 crystals between experiment and calculation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 993-996		2
21	Characterization of zinc magnesium stannate phosphor fine particles synthesized by electromagnetic wave heating. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C2C20-C2C25	1.3	2
20	P1–1: Cathodoluminescence of ZnAl2O4 phosphor for the application of UV emission devices 2010 ,		2
19	Optical Spectra of SnI2Crystal. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 606-609	1.5	2
18	Local environment of W and Mo atoms in CaW1-x Mo x O4 (x = 0.12) solid solution studied by X-ray structural analyzes. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 120602	1.4	2
17	Effects of disorder in FexTi(Se1-xSy)2single crystals. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 032038	0.3	1
16	Valence electronic structure of FFeSi2 single crystal investigated by photoelectron spectroscopy using synchrotron radiation. <i>Physics Procedia</i> , 2011 , 11, 63-66		1

15	Transport properties of defect-controlled Bi ₂ Te ₃ single crystals: fingerprint of surface Dirac electrons. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 042033	0.3	1
14	Optical Absorption of CdI ₂ Single Molecule and Clusters Incorporated into Zeolite Na-FAU. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 104704	1.5	1
13	Thermal behavior of holes in lead-chloride crystal. <i>Radiation Effects and Defects in Solids</i> , 1999 , 150, 115-119	0.19	1
12	Crystal structure of silver carbonate iodide Ag(CO)I. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2021 , 77, 734-738	0.7	1
11	Structural analyses of Gd ₃ (Al,Ga) ₅ O ₁₂ garnet solid solutions via X-ray and UV absorption spectroscopy experiments for Gd atoms. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159055	5.7	1
10	Characterization of imperfections in scintillator crystals using gamma-ray induced positron annihilation lifetime spectroscopy. <i>Optical Materials: X</i> , 2022 , 14, 100156	1.7	1
9	Electronic States on Bi ₂ Te ₃ Studied by Angle-Resolved Photoelectron Spectroscopy Using Synchrotron Radiation. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012 , 10, 117-120	0.7	0
8	Photoluminescence Enhancement in ScPO ₄ :Zr ⁴⁺ , Mn ²⁺ Phosphor. <i>Journal of Light and Visual Environment</i> , 2008 , 32, 103-106		0
7	Local structure analysis of Sb, Bi, and Ag dopant atoms in Mg ₂ Si semiconductor by x-ray absorption spectroscopy and first-principles calculation. <i>Journal of Applied Physics</i> , 2021 , 130, 245105	2.5	0
6	Excitation processes of trivalent cerium ions in calcium thiogallate crystals by hot photocarriers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 15, 012090	0.4	
5	Two-component dynamic responses of vortex matter near the vortex melting line in superconducting La _{1.86} Sr _{0.14} CuO ₄ single crystals. <i>Superconductor Science and Technology</i> , 2011 , 24, 055014	3.1	
4	Absorption and luminescence in PbCl ₂ : In crystals. <i>Journal of Luminescence</i> , 2007 , 122-123, 412-414	3.8	
3	Vacuum Ultraviolet Reflection Spectra of Ethyl-Ammonium Halides and Ethyl-Ammonium Cadmium Halides. <i>Journal of the Physical Society of Japan</i> , 2002 , 71, 1206-1207	1.5	
2	Comparative Study on Optical Properties of YPO ₄ : Mn, Zr Phosphor by Experiment and Calculation 2015 , 217-235		
1	Improvement of Photoluminescence Properties in YPO ₄ :Mn ²⁺ Phosphor Codoped with Tetraivalent cations. <i>Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers</i> , 2009 , 63, 1418-1422	0	