

Keiichiro Imura

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

616
citations

623734

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610901

24
g-index

39
all docs

39
docs citations

39
times ranked

671
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of superconductivity in quasicrystal. Nature Communications, 2018, 9, 154.	12.8	101
2	Anticorrelation between polar lattice instability and superconductivity in the Weyl semimetal candidate MoTe_2 . Physical Review B, 2017, 95, .	3.2	57
3	Unified understanding of the valence transition in the rare-earth monochalcogenides under pressure. Physical Review B, 2013, 87, .	3.2	45
4	Valence Change Driven by Constituent Element Substitution in the Mixed-Valence Quasicrystal and Approximant AuAlYb . Journal of the Physical Society of Japan, 2014, 83, 034705.	1.6	33
5	Effect of Nominal Composition on Transport, Optical, Magnetic, and Thermodynamic Properties of SmS Single Crystals. Journal of the Physical Society of Japan, 2007, 76, 064601.	1.6	30
6	Pressure-Driven Quantum Criticality and T/H Scaling in the Icosahedral AuAlYb Approximant. Journal of the Physical Society of Japan, 2016, 85, 063706.	1.6	29
7	Superconductivity of AuGeYb Approximants with Tsai-Type Clusters. Journal of the Physical Society of Japan, 2015, 84, 023705.	1.6	28
8	Pseudogap Formation near at the Border of an Insulator–Metal Transition in SmS. Journal of the Physical Society of Japan, 2007, 76, 033602.	1.6	25
9	Near-field spectroscopic investigation of dual-band heavy fermion metamaterials. Nature Communications, 2017, 8, 2262.	12.8	24
10	Excitonic Instability in the Transition from the Black Phase to the Golden Phase of SmS under Pressure Investigated by Infrared Spectroscopy. Journal of the Physical Society of Japan, 2008, 77, 113704.	1.6	22
11	Pressure–Temperature Phase Diagram of Golden SmS. Journal of the Physical Society of Japan, 2009, 78, 104602.	1.6	18
12	Magnetic properties of golden SmS. Journal of Magnetism and Magnetic Materials, 2007, 310, 408-410.	2.3	15
13	Crystal Structure of Superconducting 1/1 Cubic AuGeYb Approximant with Tsai-Type Cluster. Journal of the Physical Society of Japan, 2015, 84, 015002.	1.6	15
14	Kondo-Induced Giant Isotropic Negative Thermal Expansion. Physical Review Letters, 2020, 124, 125701.	7.8	15
15	Thermodynamic and transport properties of SmS under high pressure. Physica B: Condensed Matter, 2009, 404, 3028-3031.	2.7	14
16	Localized Electron Magnetism in the Icosahedral AuAlTm Quasicrystal and Crystalline Approximant. Journal of the Physical Society of Japan, 2015, 84, 024721.	1.6	13
17	Thermal expansion study on high-pressure phases of SmS. Physica B: Condensed Matter, 2006, 378-380, 728-729.	2.7	10
18	Thermal Expansion Measurements Using the Strain Gauge Technique with Kelvin Double Bridge. Journal of the Physical Society of Japan, 2011, 80, SA098.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Discontinuous Transition from a Real Bound State to Virtual Bound State in a Mixed-Valence State of SmS. Journal of the Physical Society of Japan, 2011, 80, 113704.	1.6	10
20	A new method for determining the valence of lanthanide compounds: $L\hat{I}^{34}$ emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2013, 28, 373.	3.0	10
21	Observation of Systematic Variation in Yb Ion Valence as a Function of Interatomic Spacing in Icosahedral Approximant Crystals. Journal of the Physical Society of Japan, 2017, 86, 043702.	1.6	9
22	Concomitant singularities of Yb-valence and magnetism at a critical lattice parameter of icosahedral quasicrystals and approximants. Scientific Reports, 2020, 10, 17116.	3.3	9
23	Electrical oscillation in SmS induced by a constant external voltage. Physical Review B, 2014, 89, .	3.2	8
24	Origin of the black-golden transition in $Sm_{1-x}Y_xS$. Journal of Physics: Conference Series, 2015, 592, 012028.	0.4	8
25	Effects of Electron Correlation and Geometrical Frustration on Magnetism of Icosahedral Quasicrystals and Approximants – An Attempt to Bridge the Gap between Quasicrystals and Heavy Fermions. Journal of the Physical Society of Japan, 2022, 91, .	1.6	8
26	First Observation of Heavy Fermion Behavior in Ce-Based Icosahedral Approximant. Journal of the Physical Society of Japan, 2017, 86, 093702.	1.6	7
27	Direct observation of heterogeneous valence state in Yb-based quasicrystalline approximants. Physical Review B, 2017, 96, .	3.2	6
28	Pressure and Temperature Evolution of Sm Mean-Valence in Golden SmS. , 2020, , .		6
29	Correlation of Ferromagnetism and Superconductivity in UCoGe. , 2011, , .		5
30	Transport properties of golden SmS. Physica B: Condensed Matter, 2008, 403, 895-897.	2.7	4
31	Thermoelectric Power Investigation on SmS. Journal of the Physical Society of Japan, 2011, 80, SA077.	1.6	4
32	Pressure effects on Ce-based Kondo approximant crystal. AIP Advances, 2018, 8, 101306.	1.3	4
33	Non-linear Conduction Phenomena of Black-SmS. , 2020, , .		4
34	Discovery of Quantum-Criticality-Like Behavior in Dilute Kondo System: $Ce_xLa_{1-x}Cu_{5.62}Au_{0.38}$. Journal of the Physical Society of Japan, 2017, 86, 123705.	1.6	3
35	Simultaneous scanning near-field optical and X-ray diffraction microscopy for correlative nanoscale structure – property characterization. Journal of Synchrotron Radiation, 2019, 26, 1790-1796.	2.4	3
36	Transport Properties of the Au-Al-Yb Quasicrystal and Approximant under Hydrostatic Pressure. Acta Physica Polonica A, 2014, 126, 527-530.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Local Quantum Fluctuations in Kondo Quasicrystal Approximant $\text{AgIn}_{1-x}\text{Ce}_x$. Journal of the Physical Society of Japan, 2020, 89, 014703.	1.6	2
38	Construction of a Magnetometer Using a Piezo Actuator. Journal of the Physical Society of Japan, 2011, 80, SA108.	1.6	0