Keiichiro Imura

List of Publications by Year
in descending order

38 papers	616 citations	623734 14 h-index	610901 24 g-index
39 all docs	39 docs citations	39 times ranked	671 citing authors

#	Article	IF	Citations
1	Effects of Electron Correlation and Geometrical Frustration on Magnetism of Icosahedral Quasicrystals and Approximants â€" An Attempt to Bridge the Gap between Quasicrystals and Heavy Fermions. Journal of the Physical Society of Japan, 2022, 91, .	1.6	8
2	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
3	Local Quantum Fluctuations in Kondo Quasicrystal Approximant Agâ€"Inâ€"(CexY1âˆ'x). Journal of the Physical Society of Japan, 2020, 89, 014703.	1.6	2
4	Kondo-Induced Giant Isotropic Negative Thermal Expansion. Physical Review Letters, 2020, 124, 125701.	7.8	15
5	Pressure and Temperature Evolution of Sm Mean-Valence in Golden SmS. , 2020, , .		6
6	Non-linear Conduction Phenomena of Black-SmS. , 2020, , .		4
7	Simultaneous scanning near-field optical and X-ray diffraction microscopy for correlative nanoscale structureâ€"property characterization. Journal of Synchrotron Radiation, 2019, 26, 1790-1796.	2.4	3
8	Discovery of superconductivity in quasicrystal. Nature Communications, 2018, 9, 154.	12.8	101
9	Pressure effects on Ce-based Kondo approximant crystal. AIP Advances, 2018, 8, 101306.	1.3	4
10	Anticorrelation between polar lattice instability and superconductivity in the Weyl semimetal candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2017, 95, .	3.2	57
11	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
12	First Observation of Heavy Fermion Behavior in Ce-Based Icosahedral Approximant. Journal of the Physical Society of Japan, 2017, 86, 093702.	1.6	7
13	Direct observation of heterogeneous valence state in Yb-based quasicrystalline approximants. Physical Review B, 2017, 96, .	3.2	6
14	Near-field spectroscopic investigation of dual-band heavy fermion metamaterials. Nature Communications, 2017, 8, 2262.	12.8	24
15	Discovery of Quantum-Criticality-Like Behavior in Dilute Kondo System: CexLa1âˆ'xCu5.62Au0.38. Journal of the Physical Society of Japan, 2017, 86, 123705.	1.6	3
16	Pressure-Driven Quantum Criticality and T/H Scaling in the Icosahedral Auâ€"Alâ€"Yb Approximant. Journal of the Physical Society of Japan, 2016, 85, 063706.	1.6	29
17	Origin of the black-golden transition in Sm_{1-x}Y_xS. Journal of Physics: Conference Series, 2015, 592, 012028.	0.4	8
18	Crystal Structure of Superconducting 1/1 Cubic Auâ€"Geâ€"Yb Approximant with Tsai-Type Cluster. Journal of the Physical Society of Japan, 2015, 84, 015002.	1.6	15

#	Article	IF	Citations
19	Superconductivity of Auâ€“Geâ€“Yb Approximants with Tsai-Type Clusters. Journal of the Physical Society of Japan, 2015, 84, 023705.	1.6	28
20	Localized Electron Magnetism in the Icosahedral Auâ€“Alâ€“Tm Quasicrystal and Crystalline Approximant. Journal of the Physical Society of Japan, 2015, 84, 024721.	1.6	13
21	Transport Properties of the Au-Al-Yb Quasicrystal and Approximant under Hydrostatic Pressure. Acta Physica Polonica A, 2014, 126, 527-530.	0.5	2
22	Electrical oscillation in SmS induced by a constant external voltage. Physical Review B, 2014, 89, .	3.2	8
23	Valence Change Driven by Constituent Element Substitution in the Mixed-Valence Quasicrystal and Approximant Auâ€“Alâ€“Yb. Journal of the Physical Society of Japan, 2014, 83, 034705.	1.6	33
24	A new method for determining the valence of lanthanide compounds: LÎ³4 emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2013, 28, 373.	3.0	10
25	Unified understanding of the valence transition in the rare-earth monochalcogenides under pressure. Physical Review B, 2013, 87, .	3.2	45
26	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
27	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
28	Construction of a Magnetometer Using a Piezo Actuator. Journal of the Physical Society of Japan, 2011, 80, SA108.	1.6	0
29	Thermoelectric Power Investigation on SmS. Journal of the Physical Society of Japan, 2011, 80, SA077.	1.6	4
30	Correlation of Ferromagnetism and Superconductivity in UCoGe. , 2011, , .		5
31	Pressureâ€“Temperature Phase Diagram of Golden SmS. Journal of the Physical Society of Japan, 2009, 78, 104602.	1.6	18
32	Thermodynamic and transport properties of SmS under high pressure. Physica B: Condensed Matter, 2009, 404, 3028-3031.	2.7	14
33	Transport properties of golden SmS. Physica B: Condensed Matter, 2008, 403, 895-897.	2.7	4
34	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
35	Pseudogap Formation near at the Border of an Insulatorâ€“Metal Transition in SmS. Journal of the Physical Society of Japan, 2007, 76, 033602.	1.6	25
36	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

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37	Magnetic properties of golden SmS. Journal of Magnetism and Magnetic Materials, 2007, 310, 408-410.	2.3	15
38	Thermal expansion study on high-pressure phases of SmS. Physica B: Condensed Matter, 2006, 378-380, 728-729.	2.7	10