

# Satoshi Iguchi

## List of Publications by Year in descending order

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43  
papers

1,560  
citations

394421

19  
h-index

289244

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g-index

43  
all docs

43  
docs citations

43  
times ranked

2315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic-Field-Induced Ferroelectric State in $\text{DyFeO}_3$ . Physical Review Letters, 2008, 101, 097205.	7.8	427
2	Impurity-doping-induced ferroelectricity in the frustrated antiferromagnet $\text{CuFeO}_2$ . Physical Review B, 2007, 75, .	3.2	162
3	Nature of the Transition between a Ferromagnetic Metal and a Spin-Glass Insulator in Pyrochlore Molybdates. Physical Review Letters, 2007, 99, 086401.	7.8	78
4	Topological spin textures in the helimagnet $\text{FeGe}$ . Physical Review B, 2008, 77, .	3.2	78
5	Magnetic Field Induced Sign Reversal of the Anomalous Hall Effect in a Pyrochlore Ferromagnet $\text{Nd}_2\text{Mo}_2\text{O}_7$ : Evidence for a Spin Chirality Mechanism. Physical Review Letters, 2003, 90, 257202.	7.8	71
6	Quantum Spin Liquid Emerging from Antiferromagnetic Order by Introducing Disorder. Physical Review Letters, 2015, 115, 077001.	7.8	61
7	Relaxor ferroelectricity induced by electron correlations in a molecular dimer Mott insulator. Physical Review B, 2013, 87, .	3.2	47
8	Anomalous Nernst Effects in Pyrochlore Molybdates with Spin Chirality. Physical Review Letters, 2008, 100, 106601.	7.8	46
9	Topological Hall Effect in Pyrochlore Lattice with Varying Density of Spin Chirality. Physical Review Letters, 2012, 108, 156601.	7.8	41
10	Charge Dynamics Near the Electron-Correlation Induced Metal-Insulator Transition in Pyrochlore-Type Molybdates. Physical Review Letters, 2004, 93, 266401.	7.8	39
11	Emergence of topological Hall effect from fanlike spin structure as modified by Dzyaloshinsky-Moriya interaction in $\text{MnP}$ . Physical Review B, 2012, 86, .	3.2	38
12	Quantum-disordered state of magnetic and electric dipoles in an organic Mott system. Nature Communications, 2017, 8, 1821.	12.8	38
13	Crystallization and vitrification of electrons in a glass-forming charge liquid. Science, 2017, 357, 1381-1385.	12.6	37
14	Mesoscopic 2D Charge Transport in Commonplace PEDOT:PSS Films. Advanced Electronic Materials, 2018, 4, 1700490.	5.1	36
15	Emergence of a Diffusive Metal State with No Magnetic Order near the Mott Transition in Frustrated Pyrochlore-Type Molybdates. Physical Review Letters, 2009, 102, 136407.	7.8	35
16	Spin Lattice Coupling in Ferroelectric Spiral Magnets: Comparison between the Cases of $(\text{Tb,Dy})\text{MnO}_3$ and $\text{CoCr}_2\text{O}_4$ . Journal of the Physical Society of Japan, 2007, 76, 023602.	1.6	33
17	Interface-dependent magnetotransport properties for thin Pt films on ferrimagnetic $\text{Y}_3\text{Fe}_5\text{O}_{12}$ . Applied Physics Letters, 2014, 104, .	3.3	29
18	Mott-Anderson Transition Controlled by a Magnetic Field in Pyrochlore Molybdate. Physical Review Letters, 2006, 96, 116403.	7.8	24

#	ARTICLE	IF	CITATIONS
19	Raman study of the metal-insulator transition in pyrochlore Moxides. Physical Review B, 2004, 70, .	3.2	20
20	Variation of the charge dynamics in bandwidth- and filling-controlled metal-insulator transitions of pyrochlore-type molybdates. Physical Review B, 2006, 73, .	3.2	20
21	Emergence of charge degrees of freedom under high pressure in the organic dimer-Mott insulator $\text{Nd}_2\text{Mo}_2\text{O}_7$ . Physical Review B, 2015, 92, .	3.2	19
22	Structural Alternation Correlated to the Conductivity Enhancement of PEDOT:PSS Films by Secondary Doping. Journal of Physical Chemistry C, 2019, 123, 13467-13471.	3.1	19
23	Scaling of Anomalous Hall Resistivity in $\text{Nd}_2\text{Mo}_2\text{O}_7$ . Physical Review Letters, 2007, 99, 077202.	7.8	18
24	Polaronic Behavior of Photoelectron Spectra of $\text{Fe}_3\text{O}_4$ Revealed by Both Hard X-ray and Extremely Low Energy Photons. Journal of the Physical Society of Japan, 2010, 79, 064710.	1.6	14
25	Magneto-optical effect induced by spin chirality of the itinerant ferromagnet $\text{Nd}_2\text{Mo}_2\text{O}_7$ . Physical Review B, 2005, 72, .	3.2	13
26	Collective excitation of a short-range charge ordering in $\text{CsZn}(\text{SCN})_2$ . Physical Review B, 2014, 89, .	3.2	12
27	Critical Temperature in Bulk Ultrafine-Grained Superconductors of Nb, V, and Ta Processed by High-Pressure Torsion. Materials Transactions, 2019, 60, 1367-1376.	1.2	12
28	The spin chirality induced anomalous Hall effect in pyrochlore ferromagnets. Journal of Physics Condensed Matter, 2004, 16, S599-S606.	1.8	11
29	Diffusive charge transport with strongly renormalized carrier mass in hole-doped Mott insulators $(\text{Y}_1-x\text{Cdx})_2\text{Mo}_2\text{O}_7$ with frustrated pyrochlore lattice. Physical Review B, 2011, 84, .	3.2	11
30	Lattice Dynamics Coupled to Charge and Spin Degrees of Freedom in the Molecular Dimer-Mott Insulator $(\text{BEDT-TTF})_2\text{Cu}_2(\text{CN})_3$ . Physical Review Letters, 2019, 123, 027601.	7.8	11
31	Optical Probe for Anomalous Hall Resonance in Ferromagnets with Spin Chirality. Physical Review Letters, 2009, 103, 267206.	7.8	10
32	Linear magnetic field dependence of the magnetodielectric effect in eutectic $\text{BaTiO}_3\text{-CoFe}_2\text{O}_4$ multiferroic material fabricated by containerless processing. Applied Physics Letters, 2018, 112, .	3.3	10
33	X-ray Irradiation Effect on the Dielectric Charge Response in the Dimer-Mott Insulator $(\text{BEDT-TTF})_2\text{Cu}_2(\text{CN})_3$ . Journal of the Physical Society of Japan, 2015, 84, 074709.	1.6	7
34	Magneto-thermopower in the Weak Ferromagnetic Oxide $\text{CaRu}_0.8\text{Sc}_0.2\text{O}_3$ : An Experimental Test for the Kelvin Formula in a Magnetic Material. Journal of the Physical Society of Japan, 2017, 86, 104707.	1.6	7
35	Electric-field-induced intradimer charge disproportionation in the dimer-Mott insulator $(\text{BEDT-TTF})_2\text{Cl}_2$ . Physical Review B, 2017, 95, .	3.2	6
36	Enhanced gyrotropic birefringence and natural optical activity on electromagnon resonance in a helimagnet. Nature Communications, 2021, 12, 6674.	12.8	6

#	ARTICLE	IF	CITATIONS
37	Formation of nanoscale polarized clusters as precursors of electronic ferroelectricity probed by conductance noise spectroscopy. <i>Physical Review B</i> , 2020, 102, .	3.2	5
38	Chemical control of spin chirality in $(\text{Nd}_{1-x}\text{Dy}_x)_2\text{Mo}_2\text{O}_7$ . <i>Physical Review B</i> , 2004, 69, .	3.2	3
39	Dimer-Mott and charge-ordered insulating states in the quasi-one-dimensional organic conductors $\text{P}^+\text{A}^2-$ and $\text{I}^+\text{C}^2\text{A}^2$ ( $\text{BPDT-TTF})_2\text{ICl}_2$ . <i>Physical Review B</i> , 2017, 96, .	3.2	3
40	Dielectric Response of Multiorbital Molecular Compounds ( $\text{TfM-TTP})_x$ ( $x = 0, 0.5, 1$ ). <i>Journal of Applied Physics</i> , 2016, 120, 104301.	1.6	10
41	Low-Temperature Magnetism of Gold Nano Particles Contained in Electrochemical Sugar Recognition System. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	2.1	1
42	Charge Ordering and $\text{d-d}$ Interaction in Electron-Doped $3/4$ -Filling Molecular System $\text{I}^+\text{A}^2-(\text{BEDT-TTF})_2\text{Rb}_2\text{Co}(\text{SCN})_4$ ( $x = 0.6$ ). <i>Journal of the Physical Society of Japan</i> , 2021, 90, 074701.	1.6	1
43	Uniaxial Chemical Pressure and Disorder Effects on Magnetic and Dielectric Properties of $\text{I}^+\text{A}^2-(\text{BEDT-TTF})_2(\text{ICl})_2(\text{AuCl})_x$ ( $x = 0, 0.5, 1$ ). <i>Journal of the Physical Society of Japan</i> , 2015, 84, 033709.	1.6	1