Hikaru Saito

List of Publications by Year
in descending order

33	337	840776 11	888059 17
papers	citations	h-index	g-index

35	35	35	356
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Water-Selective Nanostructured Dehumidifiers for Molecular Sensing Spaces. ACS Sensors, 2022, 7, 534-544.	7.8	3
2	Exciton-dielectric mode coupling in MoS₂ nanoflakes visualized by cathodoluminescence. Nanophotonics, 2022, 11, 2129-2137.	6.0	10
3	Recent Studies on TEM/STEM Tomography. Materia Japan, 2022, 61, 84-88.	0.1	0
4	Surface Anchoring and Active Sites of [Mo₃S₁₃]^{2â€“} Clusters as Co-Catalysts for Photocatalytic Hydrogen Evolution. ACS Catalysis, 2022, 12, 6641-6650.	11.2	19
5	Immobilization of a [Co^{III}Co^{II}(H₂O)W₁₁O₃₉]^{7â€“} Polyoxoanion for the Photocatalytic Oxygen Evolution Reaction. ACS Materials Au, 2022, 2, 505-515.	6.0	2
6	Realization of epitaxial thin films of the superconductor K-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ba</mml:mi><mml:msub><mml:mi>Fe</mml:mi><mml:m Physical Review Materials, 2021, 5, .	3.1	6
7	The impact of surface Cu²⁺ of ZnO/(Cu_{1â”x}Zn_x)O heterostructured nanowires on the adsorption and chemical transformation of carbonyl compounds. Chemical Science, 2021, 12, 5073-5081.	7.4	5
8	High Jc and low anisotropy of hydrogen doped NdFeAsO superconducting thin film. Scientific Reports, 2021, 11, 5636.	3.3	3
9	Key Role of d⁰ and d¹⁰ Cations for the Design of Semiconducting Colusites: Large Thermoelectric ZT in Cu₂₆Ti₂Sb₆S₃₂ Compounds. Chemistry of Materials, 2021, 33, 3449-3456.	6.7	24
10	Synergistic Effect of Chemical Substitution and Insertion on the Thermoelectric Performance of Cu₂₆V₂Ge₆S₃₂ Colusite. Inorganic Chemistry, 2021, 60, 11364-11373.	4.0	7
11	Valley-Polarized Plasmonic Edge Mode Visualized in the Near-Infrared Spectral Range. Nano Letters, 2021, 21, 6556-6562.	9.1	7
12	Microwave synthesis of ZnO microcrystals with novel asymmetric morphology. Advanced Powder Technology, 2021, 32, 4356-4363.	4.1	5
13	Five-second STEM dislocation tomography for 300Ânm thick specimen assisted by deep-learning-based noise filtering. Scientific Reports, 2021, 11, 20720.	3.3	15
14	Electron tomography imaging methods with diffraction contrast for materials research. Microscopy (Oxford, England), 2020, 69, 141-155.	1.5	19
15	Enargite Cu₃PS₄: A Cuâ€“Sâ€Based Thermoelectric Material with a Wurtziteâ€Derivative Structure. Advanced Functional Materials, 2020, 30, 2000973.	14.9	25
16	Hybridization of Gap Modes and Lattice Modes in a Plasmonic Resonator Array with a Metalâ€“Insulatorâ€“Metal Structure. ACS Photonics, 2019, 6, 2618-2625.	6.6	6
17	High spectral resolution EELS to probe optics at the nanometer scale. Microscopy and Microanalysis, 2019, 25, 630-631.	0.4	0
18	Atomic-scale phonon scatterers in thermoelectric colusites with a tetrahedral framework structure. Journal of Materials Chemistry A, 2019, 7, 228-235.	10.3	41

#	Article	IF	Citations
19	Carbon observation by electron energy-loss spectroscopy and thermoelectric properties of graphite added bismuth antimony telluride prepared by mechanical alloying-hot pressing. Intermetallics, 2019, 109, 1-7.	3.9	3
20	Emergence of point defect states in a plasmonic crystal. Physical Review B, 2019, 100, .	3.2	5
21	1pB_K2Electron beam spectroscopy for plasmonic Bloch modes. Microscopy (Oxford, England), 2018, 67, i6-i6.	1.5	0
22	2pA_SS3-2In-situ straining and electron tomography: towards 3D imaging of dislocation dynamics. Microscopy (Oxford, England), 2018, 67, i19-i19.	1.5	1
23	Characterization of Nonradiative Bloch Modes in a Plasmonic Triangular Lattice by Electron Energy-Loss Spectroscopy. ACS Photonics, 2018, 5, 4476-4483.	6.6	4
24	Placticals and Trends of Electron Tomography for Materials Research. Materia Japan, 2018, 57, 589-594.	0.1	0
25	Waveguide Bandgap in Crystalline Bandgap Slows Down Surface Plasmon Polariton. ACS Photonics, 2017, 4, 1361-1370.	6.6	10
26	Three-dimensional visualization of dislocations in a ferromagnetic material by magnetic-field-free electron tomography. Ultramicroscopy, 2017, 182, 249-257.	1.9	8
27	Coupling of plasmonic nanopore pairs: facing dipoles attract each other. Light: Science and Applications, 2016, 5, e16146-e16146.	16.6	30
28	Codeposition of Colloidal Platinum Particles and Iron Chloride Precursor on TiO2 for Efficient Catalytic Oxidation of CO to CO2. Chemistry Letters, 2015, 44, 1786-1788.	1.3	0
29	Size dependence of bandgaps in a two-dimensional plasmonic crystal with a hexagonal lattice. Optics Express, 2015, 23, 2524.	3.4	21
30	Confinement of Surface Plasmon Polaritons by Heterostructures of Plasmonic Crystals. Nano Letters, 2015, 15, 6789-6793.	9.1	14
31	Control of Light Emission by a Plasmonic Crystal Cavity. Nano Letters, 2015, 15, 5764-5769.	9.1	27
32	Size dependence of band structures in a two-dimensional plasmonic crystal with a square lattice. Optics Express, 2014, 22, 29761.	3.4	12
33	Dispersion relations for coupled surface plasmon-polariton modes excited in multilayer structures. Microscopy (Oxford, England), 2014, 63, 85-93.	1.5	5