

Jungseek Hwang

List of Publications by Year in descending order

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80
papers

2,830
citations

304368

22
h-index

168136

53
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85
all docs

85
docs citations

85
times ranked

4155
citing authors

#	ARTICLE	IF	CITATIONS
1	Unusually large exciton binding energy in multilayered 2H-MoTe ₂ . Scientific Reports, 2022, 12, 4543.	1.6	11
2	Electron-hole symmetry in quasiparticle spectral weight of cuprates observed via infrared and photoemission spectroscopy. Physical Review Materials, 2022, 6, .	0.9	0
3	Correlation effects obtained from optical spectra of Fe-pnictides using an extended Drude-Lorentz model analysis. Current Applied Physics, 2022, 39, 90-96.	1.1	3
4	Color of Copper/Copper Oxide. Advanced Materials, 2021, 33, e2007345.	11.1	28
5	Modulation spectroscopy study on additive-induced efficiency enhancement of PTB7:PC71BM organic photovoltaic devices. Current Applied Physics, 2021, 25, 48-54.	1.1	0
6	Excitonic insulator emerging from semiconducting normal state in $\text{Cu}_x\text{Te}_{1-x}$. Physical Review B, 2021, 103, .	1.1	0
7	Defect engineering of magnetic ground state in EuTiO_3 epitaxial thin films. Journal of the American Ceramic Society, 2021, 104, 4606-4613.	1.9	7
8	Superconducting coherence length of hole-doped cuprates obtained from electron-boson spectral density function. Scientific Reports, 2021, 11, 11668.	1.6	4
9	Evolution of the electronic structure of Ru-doped single-crystal iridates $\text{Sr}_{1-x}\text{Ru}_x\text{O}_4$. Physical Review B, 2021, 104, .	1.1	3
10	Electron-boson spectral density functions of cuprates obtained from optical spectra via machine learning. Physical Review B, 2021, 104, .	1.1	0
11	Comparative study of optical analysis methods for thin films. Current Applied Physics, 2020, 20, 237-243.	1.1	10
12	Engineering electrical property of Dirac semimetal perovskite SrIrO_3 thin films by subtle changes in lattice structure. Applied Physics Express, 2020, 13, 015510.	1.1	3
13	Synthesis of a Copper 1,3,5-Triamino-2,4,6-benzenetriol Metal-Organic Framework. Journal of the American Chemical Society, 2020, 142, 18346-18354.	6.6	51
14	Magnetic Modulation by Oxygen Vacancies in Epitaxial $\text{Ga}_{0.5}\text{Fe}_{1.5}\text{O}_3$. Journal of the Korean Physical Society, 2020, 77, 1204-1209.	0.3	0
15	Evidence of shallow band gap in ultrathin $\text{Cu}_x\text{Te}_{1-x}$ via Magnetic-order-driven metal-insulator transitions in the quasi-one-dimensional spin-ladder compounds $\text{BaFe}_{1-x}\text{S}_x$ and $\text{BaFe}_{1-x}\text{S}_x$. Physical Review B, 2020, 102, 040407.	1.1	7
16	Extended Drude Model Analysis of the Optical Spectra of Correlated Electron Systems in a d-Wave Superconducting State. Journal of the Korean Physical Society, 2020, 76, 736-744.	1.1	5
17	Far-infrared spectroscopic study on MAPbI_3 and MAPbBr_3 . New Physics: Sae Mulli, 2020, 70, 816-821.	0.3	2
18	Far-infrared spectroscopic study on MAPbI_3 and MAPbBr_3 . New Physics: Sae Mulli, 2020, 70, 816-821.	0.0	0

#	ARTICLE	IF	CITATIONS
19	Temperature-dependent optical properties of self-doped superconducting Fe-pnictide, Sr ₂ VO ₃ FeAs. Journal of Physics Condensed Matter, 2019, 31, 445602.	0.7	3
20	Indium-Free Amorphous CaAlO Thin Film as a Transparent Conducting Oxide. Chemistry of Materials, 2019, 31, 8019-8025.	3.2	9
21	Temperature-dependent optical properties of hybrid organic-inorganic perovskite single crystals (CH ₃ NH ₃ Pb ₃ and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 657 Td (CH ₃ NH ₃ Pb ₃)	11.1	96
22	Unravelling the mechanism of the semiconducting-like behavior and its relation to superconductivity in CaFe _{1-x} Co _x Physical Review B, 2019, 99, .	1.6	17
23	Oxygen vacancy induced structural evolution of SrFeO _{3-x} epitaxial thin film from brownillerite to perovskite. Physical Review B, 2018, 97, .	1.6	17
24	Directing Oxygen Vacancy Channels in SrFeO _{2.5} Epitaxial Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 4831-4837.	4.0	43
25	Analysis of optical data using extended Drude model and generalized Allen's formulas. Journal of Physics Condensed Matter, 2018, 30, 405604.	0.7	3
26	Temperature-dependent excitonic superfluid plasma frequency evolution in an excitonic insulator, Ta ₂ NiSe ₅ . Scientific Reports, 2018, 8, 11961.	1.6	17
27	Structural, electro-magnetic, and optical properties of Ba(Fe,Ni) ₂ As ₂ single-crystal thin film. Superconductor Science and Technology, 2017, 30, 035001.	1.8	17
28	Magnetic, optical, and electron transport properties of n-type CaFe _{1-x} Co _x Small polarons versus Anderson localization. Physical Review B, 2017, 95, .	1.6	17
29	Thin Films: Topotactic Metal-Insulator Transition in Epitaxial SrFeO _x Thin Films (Adv. Mater. 37/2017). Advanced Materials, 2017, 29, .	11.1	0
30	Revisiting optical properties of MgB ₂ with a high-quality sample prepared by a HPCVD method. Scientific Reports, 2017, 7, 8977.	1.6	4
31	Topotactic Metal-Insulator Transition in Epitaxial SrFeO _x Thin Films. Advanced Materials, 2017, 29, 1606566.	11.1	96
32	Effect of oxygen intercalation into oxygen-deficient SrFe _{0.8} Co _{0.2} O _{3-δ} thin films. Current Applied Physics, 2017, 17, 717-721.	1.1	6
33	Optical properties of Ba _{0.6} K _{0.4} Fe ₂ As ₂ thin film prepared by pulsed laser deposition and subsequent post-annealing process. Current Applied Physics, 2017, 17, 976-979.	1.1	2
34	Phase transitions via selective elemental vacancy engineering in complex oxide thin films. Scientific Reports, 2016, 6, 23649.	1.6	46
35	Anomalous behavior of coupling constant near the magnetic phase transition of Ni-doped Ba-122 pnictides. Current Applied Physics, 2016, 16, 1130-1135.	1.1	0
36	Rapid and Checkable Electrical Post-Treatment Method for Organic Photovoltaic Devices. Scientific Reports, 2016, 6, 22604.	1.6	10

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37	Intrinsic temperature-dependent evolutions in the electron-boson spectral density obtained from optical data. <i>Scientific Reports</i> , 2016, 6, 23647.	1.6	5
38	Epitaxial growth and metallicity of rutile MoO_2 thin film. <i>RSC Advances</i> , 2016, 6, 60704-60708.	1.7	30
39	Electron-boson spectral density function of correlated multiband systems obtained from optical data: $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ and LiFeAs . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 125702.	0.7	10
40	Defect-induced optical and electrical property modification in amorphous InGaZnO_4 films. <i>Journal of Non-Crystalline Solids</i> , 2015, 426, 99-102.	1.5	1
41	Hidden non-Fermi liquid behavior caused by magnetic phase transition in Ni-doped Ba-122 pnictides. <i>Scientific Reports</i> , 2015, 5, 12156.	1.6	8
42	Reverse process of usual optical analysis of boson-exchange superconductors: impurity effects on s - and d -wave superconductors. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 085701.	0.7	6
43	Extended Drude model analysis of n -doped cuprate, $\text{Pr}_{0.85}\text{LaCe}_{0.15}\text{CuO}_4$. <i>Progress in Superconductivity and Cryogenics (PSAC)</i> , 2015, 17, 16-20.	0.3	0
44	Optical properties of NbCl_5 and ZnMg intercalated graphite compounds. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 485304.	1.3	3
45	High-energy fluctuation spectra in cuprates from infrared optical spectroscopy. <i>Physical Review B</i> , 2014, 89, .	1.1	6
46	Fully Transparent Quantum Dot Light-Emitting Diode Integrated with Graphene Anode and Cathode. <i>ACS Nano</i> , 2014, 8, 12476-12482.	7.3	67
47	Manipulation of graphene work function using a self-assembled monolayer. <i>Journal of Applied Physics</i> , 2014, 116, 084312.	1.1	20
48	Deriving the electron-phonon spectral density of MgB_2 from optical data, using maximum entropy techniques. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 165702.	0.7	3
49	Optical properties of graphite oxide and reduced graphite oxide. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 265306.	1.3	8
50	Simulation of a hump structure in the optical scattering rate within a generalized Allen formalism and its application to copper oxide systems. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 295701.	0.7	1
51	Evolution of electron-boson spectral density in the underdoped region of $\text{Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CuO}_6$. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 165703.	0.7	6
52	Near-Infrared Studies of Glucose and Sucrose in Aqueous Solutions: Water Displacement Effect and Red Shift in Water Absorption from Water-Solute Interaction. <i>Applied Spectroscopy</i> , 2013, 67, 171-180.	1.2	19
53	An analysis method of reflectance spectra of strongly correlated electron systems. <i>Progress in Superconductivity and Cryogenics (PSAC)</i> , 2013, 15, 14-18.	0.3	1
54	Optical self-energy in graphene due to correlations. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 245601.	0.7	10

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55	Determination of boson spectrum from optical data in pseudogap phase of underdoped cuprates. Physical Review B, 2012, 86, .	1.1	8
56	Distinguishing Coulomb and electron-phonon interactions for massless Dirac fermions. Physical Review B, 2012, 85, .	1.1	4
57	Bosons in high-temperature superconductors: an experimental survey. Reports on Progress in Physics, 2011, 74, 066501.	8.1	101
58	Thermodynamics of Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation of Luminescent Dendrimers. , 2011, , .		0
59	Mechanisms of Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation. Critical Reviews in Solid State and Materials Sciences, 2011, 36, 16-45.	6.8	38
60	Time-resolved magnetospectroscopy of quasiparticle dynamics in superconducting Nb _{0.5} Ti _{0.5} N. Physica C: Superconductivity and Its Applications, 2010, 470, S714-S715.	0.6	0
61	Far-infrared Conductivity Measurements of Pair Breaking in Superconducting $Nb_{0.5}Ti_{0.5}N$ Thin Films Induced by an External Magnetic Field. Physical Review Letters, 2010, 105, 257006.		
62	Optical birefringence in uniaxially compressed aerogels. New Journal of Physics, 2010, 12, 103016.	1.2	13
63	Persistence of Ferroelectricity in $BaTiO_3$ through the Insulator-Metal Transition. Physical Review Letters, 2010, 104, 147602.	2.9	156
64	Aerogel waveplates. Optics Express, 2009, 17, 10599.	1.7	8
65	A Spray-Processable, Low Bandgap, and Ambipolar Donor-Acceptor Conjugated Polymer. Journal of the American Chemical Society, 2009, 131, 2824-2826.	6.6	214
66	Manifestation of the pseudogap inab-plane optical characteristics. Journal of Physics Condensed Matter, 2008, 20, 295215.	0.7	9
67	Fermi surface arcs and the infrared conductivity of underdoped YBa ₂ Cu ₃ O _{6.50} . Europhysics Letters, 2008, 82, 27002.	0.7	16
68	Evidence for a Pseudogap in Underdoped Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} and YBa ₂ Cu ₃ O _{6.50} from In-Plane Optical Conductivity Measurements. Physical Review Letters, 2008, 100, 177005.	2.9	52
69	Bosonic Spectral Density of Epitaxial Thin-Film $La_{1.83}Sr_{0.35}CuO_4$ from Infrared Conductivity Measurements. Physical Review Letters, 2008, 100, 137005.	2.9	35
70	High Energy Scales in the Optical Self-Energy of the Cuprate Superconductors. Physical Review Letters, 2007, 98, 207002.	2.9	39
71	Doping dependent optical properties of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . Journal of Physics Condensed Matter, 2007, 19, 125208.	0.7	100
72	Scanning-tunnelling spectra of cuprates. Nature, 2007, 446, E3-E4.	13.7	11

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73	High-transition-temperature superconductivity in the absence of the magnetic-resonance mode. Nature, 2004, 427, 714-717.	13.7	195
74	Sharp-mode coupling in high-Tc superconductors (reply). Nature, 2004, 432, 1-1.	13.7	1
75	Multicolored Electrochromism in Polymers: Structures and Devices. Chemistry of Materials, 2004, 16, 4401-4412.	3.2	745
76	Dioxypyrrole and dioxythiophene based conducting polymers: properties and applications. Synthetic Metals, 2001, 119, 405-406.	2.1	11
77	Far-infrared to visible optical conductivity of single-wall carbon nanotubes. Current Applied Physics, 2001, 1, 45-49.	1.1	24
78	Combined Visible and Infrared Electrochromism Using Dual Polymer Devices. Advanced Materials, 2001, 13, 634-637.	11.1	171
79	Room temperature growth of indium tin oxide thin films by ultraviolet-assisted pulsed laser deposition. Applied Surface Science, 2000, 168, 118-122.	3.1	33
80	Polarized spectroscopy of aligned single-wall carbon nanotubes. Physical Review B, 2000, 62, R13310-R13313.	1.1	138