Jungseek Hwang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3619034/publications.pdf

Version: 2024-02-01

80 papers	2,830 citations	304368 22 h-index	168136 53 g-index
85 all docs	85 docs citations	85 times ranked	4155 citing authors

#	Article	IF	Citations
1	Multicolored Electrochromism in Polymers: Structures and Devices. Chemistry of Materials, 2004, 16, 4401-4412.	3.2	745
2	A Spray-Processable, Low Bandgap, and Ambipolar Donorâ˜Acceptor Conjugated Polymer. Journal of the American Chemical Society, 2009, 131, 2824-2826.	6.6	214
3	High-transition-temperature superconductivity in the absence of the magnetic-resonance mode. Nature, 2004, 427, 714-717.	13.7	195
4	Combined Visible and Infrared Electrochromism Using Dual Polymer Devices. Advanced Materials, 2001, 13, 634-637.	11.1	171
5	Persistence of Ferroelectricity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>through the Insulator-Metal Transition. Physical Review Letters, 2010, 104, 147602.	2.9	156
6	Polarized spectroscopy of aligned single-wall carbon nanotubes. Physical Review B, 2000, 62, R13310-R13313.	1.1	138
7	Bosons in high-temperature superconductors: an experimental survey. Reports on Progress in Physics, 2011, 74, 066501.	8.1	101
8	Doping dependent optical properties of Bi2Sr2CaCu2O8+Î´. Journal of Physics Condensed Matter, 2007, 19, 125208.	0.7	100
9	Topotactic Metalâ€“Insulator Transition in Epitaxial SrFeO_x Thin Films. Advanced Materials, 2017, 29, 1606566.	11.1	96
10	Fully Transparent Quantum Dot Light-Emitting Diode Integrated with Graphene Anode and Cathode. ACS Nano, 2014, 8, 12476-12482.	7.3	67
11	Far-Infrared Conductivity Measurements of Pair Breaking in Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Nb</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:msub><mml:mi>Ti</mml:mi><mml:mn>0.5</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi></mml:math>Thin Films Induced by an External Magnetic Field. Physical Review Letters, 2010, 105, 257006.	2.9	58
12	Evidence for a Pseudogap in UnderdopedBi2Sr2CaCu2O8+Î´andYBa2Cu3O6.50from In-Plane Optical Conductivity Measurements. Physical Review Letters, 2008, 100, 177005.	2.9	52
13	Synthesis of a Copper 1,3,5-Triamino-2,4,6-benzenetriol Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 18346-18354.	6.6	51
14	Phase transitions via selective elemental vacancy engineering in complex oxide thin films. Scientific Reports, 2016, 6, 23649.	1.6	46
15	Directing Oxygen Vacancy Channels in SrFeO_{2.5} Epitaxial Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 4831-4837.	4.0	43
16	High Energy Scales in the Optical Self-Energy of the Cuprate Superconductors. Physical Review Letters, 2007, 98, 207002.	2.9	39
17	Mechanisms of Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation. Critical Reviews in Solid State and Materials Sciences, 2011, 36, 16-45.	6.8	38
18	Bosonic Spectral Density of Epitaxial Thin-Film<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>1.83</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mi>from Infrared Conductivity Measurements. Physical Review Letters, 2008, 100, 137005.	2.9	35

#	Article	IF	Citations
19	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
20	Epitaxial growth and metallicity of rutile MoO₂thin film. RSC Advances, 2016, 6, 60704-60708.	1.7	30
21	Color of Copper/Copper Oxide. Advanced Materials, 2021, 33, e2007345.	11.1	28
22	Far-infrared to visible optical conductivity of single-wall carbon nanotubes. Current Applied Physics, 2001, 1, 45-49.	1.1	24
23	Manipulation of graphene work function using a self-assembled monolayer. Journal of Applied Physics, 2014, 116, 084312.	1.1	20
24	Near-Infrared Studies of Glucose and Sucrose in Aqueous Solutions: Water Displacement Effect and Red Shift in Water Absorption from Water-Solute Interaction. Applied Spectroscopy, 2013, 67, 171-180.	1.2	19
25	Structural, electro-magnetic, and optical properties of Ba(Fe,Ni)₂As₂single-crystal thin film. Superconductor Science and Technology, 2017, 30, 035001.	1.8	17
26	Temperature-dependent excitonic superfluid plasma frequency evolution in an excitonic insulator, Ta2NiSe5. Scientific Reports, 2018, 8, 11961.	1.6	17
27	Temperature-dependent optical properties of hybrid organicâ€“inorganic perovskite single crystals (CH₃NH₃PbI₃ and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 417 Td (CH₃NH	1.1	17
28	Fermi surface arcs and the infrared conductivity of underdoped YBa 2 Cu 3 O 6.50. Europhysics Letters, 2008, 82, 27002.	0.7	16
29	Optical birefringence in uniaxially compressed aerogels. New Journal of Physics, 2010, 12, 103016.	1.2	13
30	Magnetic, optical, and electron transport properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>n</mml:mi><mml:mtext>-type</mml:mtext></mml:mrow Small polarons versus Anderson localization. Physical Review B, 2017, 95, .	1.1	13
31	Oxygen vacancy induced structural evolution of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrFeO</mml:mi><mml:mrow><mml:mn>3</mml:mn> epitaxial thin film from brownmillerite to perovskite. Physical Review B, 2018, 97, .	1.1	13
32	Dioxypyrrole and dioxythiophene based conducting polymers: properties and applications. Synthetic Metals, 2001, 119, 405-406.	2.1	11
33	Scanning-tunnelling spectra of cuprates. Nature, 2007, 446, E3-E4.	13.7	11
34	Unusually large exciton binding energy in multilayered 2H-MoTe2. Scientific Reports, 2022, 12, 4543.	1.6	11
35	Optical self-energy in graphene due to correlations. Journal of Physics Condensed Matter, 2012, 24, 245601.	0.7	10
36	Rapid and Checkable Electrical Post-Treatment Method for Organic Photovoltaic Devices. Scientific Reports, 2016, 6, 22604.	1.6	10

#	ARTICLE	IF	CITATIONS
37	Electronâ€“boson spectral density function of correlated multiband systems obtained from optical data: Ba0.6K0.4Fe2As2and LiFeAs. Journal of Physics Condensed Matter, 2016, 28, 125702.	0.7	10
38	Comparative study of optical analysis methods for thin films. Current Applied Physics, 2020, 20, 237-243.	1.1	10
39	Manifestation of the pseudogap inab-plane optical characteristics. Journal of Physics Condensed Matter, 2008, 20, 295215.	0.7	9
40	Indium-Free Amorphous Caâ€“Alâ€“O Thin Film as a Transparent Conducting Oxide. Chemistry of Materials, 2019, 31, 8019-8025.	3.2	9
41	Aerogel waveplates. Optics Express, 2009, 17, 10599.	1.7	8
42	Determination of boson spectrum from optical data in pseudogap phase of underdoped cuprates. Physical Review B, 2012, 86, .	1.1	8
43	Optical properties of graphite oxide and reduced graphite oxide. Journal Physics D: Applied Physics, 2014, 47, 265306.	1.3	8
44	Hidden non-Fermi liquid behavior caused by magnetic phase transition in Ni-doped Ba-122 pnictides. Scientific Reports, 2015, 5, 12156.	1.6	8
45	Evidence of shallow band gap in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mi>T</mml:mi><mml:m mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> via infrared spectroscopy. Physical Review B, 2020, 101, .	1.1	7
46	Defect engineering of magnetic ground state in EuTiO₃ epitaxial thin films. Journal of the American Ceramic Society, 2021, 104, 4606-4613.	1.9	7
47	Evolution of electronâ€“boson spectral density in the underdoped region of Bi2Sr2â^'xLaxCuO6. Journal of Physics Condensed Matter, 2013, 25, 165703.	0.7	6
48	High-energy fluctuation spectra in cuprates from infrared optical spectroscopy. Physical Review B, 2014, 89, .	1.1	6
49	Reverse process of usual optical analysis of boson-exchange superconductors: impurity effects on<i>s</i>- and<i>d</i>-wave superconductors. Journal of Physics Condensed Matter, 2015, 27, 085701.	0.7	6
50	Effect of oxygen intercalation into oxygen-deficient SrFe0.8Co0.2O3â^' thin films. Current Applied Physics, 2017, 17, 717-721.	1.1	6
51	Excitonic insulator emerging from semiconducting normal state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^'</mm Physical Review B, 2021, 103, .	1.1	6
52	Intrinsic temperature-dependent evolutions in the electron-boson spectral density obtained from optical data. Scientific Reports, 2016, 6, 23647.	1.6	5
53	Unravelling the mechanism of the semiconducting-like behavior and its relation to superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>CaFe</mml:mi><mml:m Physical Review B, 2019, 99, .	1.1	5
54	Magnetic-order-driven metal-insulator transitions in the quasi-one-dimensional spin-ladder compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mn mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mn	1.1	5

#	Article	IF	Citations
55	Distinguishing Coulomb and electron-phonon interactions for massless Dirac fermions. Physical Review B, 2012, 85, .	1.1	4
56	Revisiting optical properties of MgB2 with a high-quality sample prepared by a HPCVD method. Scientific Reports, 2017, 7, 8977.	1.6	4
57	Superconducting coherence length of hole-doped cuprates obtained from electronâ€“boson spectral density function. Scientific Reports, 2021, 11, 11668.	1.6	4
58	Optical properties of NbCl₅ and ZnMg intercalated graphite compounds. Journal Physics D: Applied Physics, 2014, 47, 485304.	1.3	3
59	Deriving the electronâ€“phonon spectral density of MgB2from optical data, using maximum entropy techniques. Journal of Physics Condensed Matter, 2014, 26, 165702.	0.7	3
60	Analysis of optical data using extended Drude model and generalized Allenâ€™s formulas. Journal of Physics Condensed Matter, 2018, 30, 405604.	0.7	3
61	Temperature-dependent optical properties of self-doped superconducting Fe-pnictide, Sr2VO3FeAs. Journal of Physics Condensed Matter, 2019, 31, 445602.	0.7	3
62	Engineering electrical property of Dirac semimetal perovskite SrIrO3 thin films by subtle changes in lattice structure. Applied Physics Express, 2020, 13, 015510.	1.1	3
63	Evolution of the electronic structure of Ru-doped single-crystal iridates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	1.1	3
64	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
65	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.	0.3	2
66	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
67	Sharp-mode coupling in high-Tc superconductors (reply). Nature, 2004, 432, 1-1.	13.7	1
68	Simulation of a hump structure in the optical scattering rate within a generalized Allen formalism and its application to copper oxide systems. Journal of Physics Condensed Matter, 2013, 25, 295701.	0.7	1
69	Defect-induced optical and electrical property modification in amorphous InGaZnO4 films. Journal of Non-Crystalline Solids, 2015, 426, 99-102.	1.5	1
70	An analysis method of reflectance spectra of strongly correlated electron systems. Progress in Superconductivity and Cryogenics (PSAC), 2013, 15, 14-18.	0.3	1
71	Time-resolved magnetospectroscopy of quasiparticle dynamics in superconducting Nb0.5Ti0.5N. Physica C: Superconductivity and Its Applications, 2010, 470, S714-S715.	0.6	0
72	Thermodynamics of Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation of Luminescent Dendrimers. , 2011, , .		0

#	Article	IF	Citations
73	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
74	Thin Films: Topotactic Metalâ€“Insulator Transition in Epitaxial SrFeO_x Thin Films (Adv. Mater. 37/2017). Advanced Materials, 2017, 29, .	11.1	0
75	Magnetic Modulation by Oxygen Vacancies in Epitaxial Ga0.5Fe1.5O3â˜Î˙. Journal of the Korean Physical Society, 2020, 77, 1204-1209.	0.3	0
76	Modulation spectroscopy study on additive-induced efficiency enhancement of PTB7:PC71BM organic photovoltaic devices. Current Applied Physics, 2021, 25, 48-54.	1.1	0
77	Extended Drude model analysis of n-doped cuprate, Pr0.85LaCe0.15CuO4. Progress in Superconductivity and Cryogenics (PSAC), 2015, 17, 16-20.	0.3	0
78	Far-infrared spectroscopic study on MAPbI$_3$ and MAPbBr$_3$. New Physics: Sae Mulli, 2020, 70, 816-821.	0.0	0
79	Electron-hole symmetry in quasiparticle spectral weight of cuprates observed via infrared and photoemission spectroscopy. Physical Review Materials, 2022, 6, .	0.9	0
80	Electron-boson spectral density functions of cuprates obtained from optical spectra via machine learning. Physical Review B, 2021, 104, .	1.1	0