Sanghan Lee

List of Publications by Year in descending order

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147801 144013 3,439 91 31 57 h-index citations g-index papers 92 92 92 4797 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Controlled Band Offsets in Ultrathin Hematite for Enhancing the Photoelectrochemical Water Splitting Performance of Heterostructured Photoanodes. ACS Applied Materials & Samp; Interfaces, 2022, 14, 7788-7795.	8.0	35
2	Performance enhancement of graphene/Ge near-infrared photodetector by modulating the doping level of graphene. APL Photonics, 2022, 7, .	5.7	11
3	Conducting interfaces between LaAlO3 and thick homoepitaxial SrTiO3 films for transferable templates. Applied Surface Science, 2022, 582, 152480.	6.1	2
4	Mixed-state Hall scaling behavior and vortex phase diagram in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeSe</mml:mi><mm .<="" 105,="" 2022,="" b,="" films.="" physical="" review="" td="" thin=""><td>ll:m8r.2w> ∢r</td><td>nnıl:mn>0.7<</td></mm></mml:msub></mml:mrow></mml:math>	ll:m 8r.2 w> ∢r	n nı l:mn>0.7<
5	Bi-Based Metal-Organic Framework Decorated BiVO4 Photoelectrode for Photoelectrochemical Water Splitting. Ceramist, 2022, 25, 4-14.	0.1	0
6	A long-term stable organic semiconductor photocathode-based photoelectrochemical module system for hydrogen production. Journal of Materials Chemistry A, 2022, 10, 13247-13253.	10.3	5
7	Nonvolatile Control of Metal–Insulator Transition in VO ₂ by Ferroelectric Gating. Advanced Materials, 2022, 34, .	21.0	12
8	Surface-Modified Co-doped ZnO Photoanode for Photoelectrochemical Oxidation of Glycerol. Catalysis Today, 2021, 359, 43-49.	4.4	47
9	Efficient and Stable Perovskiteâ€Based Photocathode for Photoelectrochemical Hydrogen Production. Advanced Functional Materials, 2021, 31, 2008277.	14.9	36
10	An organometal halide perovskite photocathode integrated with a MoS ₂ catalyst for efficient and stable photoelectrochemical water splitting. Journal of Materials Chemistry A, 2021, 9, 22291-22300.	10.3	14
11	Perovskiteâ€Based Photocathodes: Efficient and Stable Perovskiteâ€Based Photocathode for Photoelectrochemical Hydrogen Production (Adv. Funct. Mater. 17/2021). Advanced Functional Materials, 2021, 31, 2170119.	14.9	2
12	Bendable BiVO ₄ -Based Photoanodes on a Metal Substrate Realized through Template Engineering for Photoelectrochemical Water Splitting. ACS Applied Materials & Samp; Interfaces, 2021, 13, 16478-16484.	8.0	3
13	Co-catalytic effects of Bi-based metal-organic framework on BiVO4 photoanodes for photoelectrochemical water oxidation. Applied Surface Science, 2021, 563, 150357.	6.1	12
14	Experimental realization of strain-induced room-temperature ferroelectricity in SrMnO3 films via selective oxygen annealing. NPG Asia Materials, 2021, 13, .	7.9	6
15	Growth of Transition Metal Dichalcogenide Heterojunctions with Metal Oxides for Metal–Insulator–Semiconductor Capacitors. ACS Applied Nano Materials, 2021, 4, 12017-12023.	5.0	6
16	Template Engineering of Metal-to-Insulator Transitions in Epitaxial Bilayer Nickelate Thin Films. ACS Applied Materials & Samp; Interfaces, 2021, 13, 54466-54475.	8.0	5
17	Enhanced spin–orbit torque in Ni81Fe19/Pt bilayer with NdNiO3 contact. Applied Physics Letters, 2021, 119, .	3.3	2
18	Magnetotransport Properties in Epitaxial Fe1.1Te0.7Se0.3 Films. Journal of Superconductivity and Novel Magnetism, 2020, 33, 165-169.	1.8	O

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19	Overestimation of Photoelectrochemical Hydrogen Evolution Reactivity Induced by Noble Metal Impurities Dissolved from Counter/Reference Electrodes. ACS Catalysis, 2020, 10, 3381-3389.	11.2	20
20	Template Engineering of CuBi ₂ O ₄ Singleâ€Crystal Thin Film Photocathodes. Small, 2020, 16, e2002429.	10.0	20
21	Parametric study of pulsed laser deposited (PLD) WSe2 2D transistors. Microelectronic Engineering, 2020, 230, 111368.	2.4	3
22	Highly ordered lead-free double perovskite halides by design. Journal of Materiomics, 2020, 6, 651-660.	5.7	27
23	Artificially engineered nanostrain in FeSexTe1-x superconductor thin films for supercurrent enhancement. NPG Asia Materials, 2020, 12 , .	7.9	15
24	Large enhancement of the photocurrent density in N-doped Cu3N films through bandgap reduction. Journal of the Korean Ceramic Society, 2020, 57, 345-351.	2.3	10
25	Effect of Ceramic-Target Crystallinity on Metal-to-Insulator Transition of Epitaxial Rare-Earth Nickelate Films Grown by Pulsed Laser Deposition. ACS Applied Electronic Materials, 2019, 1, 1952-1958.	4.3	6
26	Transition Metal Dichalcogenides: Direct In Situ Growth of Centimeter-Scale Multi-Heterojunction MoS2 /WS2 /WSe2 Thin-Film Catalyst for Photo-Electrochemical Hydrogen Evolution (Adv. Sci. 13/2019). Advanced Science, 2019, 6, 1970079.	11.2	3
27	In Situ Growth of Nanostructured BiVO ₄ –Bi ₂ O ₃ Mixed-Phase via Nonequilibrium Deposition Involving Metal Exsolution for Enhanced Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 44069-44076.	8.0	18
28	Long-term stabilized high-density CuBi ₂ O ₄ /NiO heterostructure thin film photocathode grown by pulsed laser deposition. Chemical Communications, 2019, 55, 12447-12450.	4.1	33
29	Piezoelectricity in La0.85Ce0.15MnO3 layer of BiFeO3/ La0.85Ce0.15MnO3 based ferroelectric/semiconductor oxide superlattice. Current Applied Physics, 2019, 19, 950-953.	2.4	2
30	Direct In Situ Growth of Centimeterâ€Scale Multiâ€Heterojunction MoS ₂ /WS ₂ /WSe ₂ Thinâ€Film Catalyst for Photoâ€Electrochemical Hydrogen Evolution. Advanced Science, 2019, 6, 1900301.	11.2	60
31	All-Solution-Processed WO ₃ /BiVO ₄ Coreâ€"Shell Nanorod Arrays for Highly Stable Photoanodes. ACS Applied Materials & Stable Photoanodes. ACS Applied Photoanodes. ACS Applied Photoanodes. ACS Applied Photoanodes. ACS Applied Photoanodes. ACS ACS Applied Photoanodes. ACS	8.0	57
32	Enhancement of Ferroelectric Properties of Superlattice-Based Epitaxial BiFeO ₃ Thin Films via Substitutional Doping Effect. Journal of Physical Chemistry C, 2019, 123, 11564-11571.	3.1	5
33	Daylight-Induced Metal–Insulator Transition in Ag-Decorated Vanadium Dioxide Nanorod Arrays. ACS Applied Materials & Interfaces, 2019, 11, 11568-11578.	8.0	20
34	Reversible magnetoelectric switching in multiferroic three-dimensional nanocup heterostructure films. NPG Asia Materials, 2019, 11 , .	7.9	8
35	Enhanced ferroelectricity in perovskite oxysulfides. Physical Review Materials, 2019, 3, .	2.4	4
36	Oxygen stoichiometry controlled sharp insulator-metal transition in highly oriented VO2/TiO2 thin films. Current Applied Physics, 2018, 18, 652-657.	2.4	19

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37	Plasmonic Silver Nanoparticle-Impregnated Nanocomposite BiVO ₄ Photoanode for Plasmon-Enhanced Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2018, 122, 7088-7093.	3.1	42
38	Domain-engineered BiFeO3 thin-film photoanodes for highly enhanced ferroelectric solar water splitting. Nano Research, 2018, 11, 642-655.	10.4	88
39	Tungsten Diselenide: Growth of Centimeter-Scale Monolayer and Few-Layer WSe2 Thin Films on SiO2 /Si Substrate via Pulsed Laser Deposition (Adv. Mater. Interfaces 20/2018). Advanced Materials Interfaces, 2018, 5, 1870098.	3.7	1
40	Non-stoichiometry-induced metal-to-insulator transition in nickelate thin films grown by pulsed laser deposition. Current Applied Physics, 2018, 18, 1577-1582.	2.4	4
41	Tailoring Crystallographic Orientations to Substantially Enhance Charge Separation Efficiency in Anisotropic BiVO ₄ Photoanodes. ACS Catalysis, 2018, 8, 5952-5962.	11.2	85
42	Plasmonic gold nanoparticle-decorated BiVO ₄ /ZnO nanowire heterostructure photoanodes for efficient water oxidation. Catalysis Science and Technology, 2018, 8, 3759-3766.	4.1	34
43	Solution-processed ZnO/SnO ₂ bilayer ultraviolet phototransistor with high responsivity and fast photoresponse. Journal of Materials Chemistry C, 2018, 6, 6014-6022.	5.5	28
44	Nonequilibrium Deposition in Epitaxial BiVO ₄ Thin Film Photoanodes for Improving Solar Water Oxidation Performance. Chemistry of Materials, 2018, 30, 5673-5681.	6.7	20
45	Efficient Light Absorption by GaN Truncated Nanocones for High Performance Water Splitting Applications. ACS Applied Materials & Samp; Interfaces, 2018, 10, 28672-28678.	8.0	57
46	Photoelectrochemical Device Designs toward Practical Solar Water Splitting: A Review on the Recent Progress of BiVO4 and BiFeO3 Photoanodes. Applied Sciences (Switzerland), 2018, 8, 1388.	2.5	32
47	Vortex pinning in artificially layered Ba(Fe,Co)2As2 film. Cryogenics, 2018, 92, 1-4.	1.7	5
48	Growth of Centimeterâ€Scale Monolayer and Fewâ€Layer WSe ₂ Thin Films on SiO ₂ /Si Substrate via Pulsed Laser Deposition. Advanced Materials Interfaces, 2018, 5, 1800524.	3.7	23
49	Enhanced Photocatalytic Performance Depending on Morphology of Bismuth Vanadate Thin Film Synthesized by Pulsed Laser Deposition. ACS Applied Materials & Enterfaces, 2017, 9, 505-512.	8.0	50
50	Structural, electro-magnetic, and optical properties of Ba(Fe,Ni) ₂ As ₂ single-crystal thin film. Superconductor Science and Technology, 2017, 30, 035001.	3.5	17
51	Thermally activated flux flow in superconducting epitaxial FeSe0.6Te0.4 thin film. Results in Physics, 2017, 7, 16-20.	4.1	26
52	Localized GHz frequency electrodynamic behavior of an optimally-doped Ba(Fe <mml:math) 0="" etqq0="" o<="" rgbt="" td="" tj=""><td>verlock 10</td><td>7 Tf 50 157 Td 4</td></mml:math)>	verlock 10	7 Tf 50 157 Td 4
53	Dominance of Plasmonic Resonant Energy Transfer over Direct Electron Transfer in Substantially Enhanced Water Oxidation Activity of BiVO ₄ by Shapeâ€Controlled Au Nanoparticles. Small, 2017, 13, 1701644.	10.0	52
54	Origin of the emergence of higher T c than bulk in iron chalcogenide thin films. Scientific Reports, 2017, 7, 9994.	3.3	24

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55	High critical current density over 1 MA cm ^{â^2} at 13 T in BaZrO ₃ incorporated Ba(Fe,Co) ₂ As ₂ thin film. Superconductor Science and Technology, 2017, 30, 085006.	3.5	20
56	Template-engineered epitaxial BiVO ₄ photoanodes for efficient solar water splitting. Journal of Materials Chemistry A, 2017, 5, 18831-18838.	10.3	42
57	Effect of proton irradiation on the fluctuation-induced magnetoconductivity of FeSe _{1â^'<i>x</i>} Te _{<i>x</i>} thin films. New Journal of Physics, 2017, 19, 093004.	2.9	10
58	Enhanced Intrinsic Catalytic Activity of λâ€MnO ₂ by Electrochemical Tuning and Oxygen Vacancy Generation. Angewandte Chemie - International Edition, 2016, 55, 8599-8604.	13.8	107
59	Enhanced Intrinsic Catalytic Activity of λâ€MnO ₂ by Electrochemical Tuning and Oxygen Vacancy Generation. Angewandte Chemie, 2016, 128, 8741-8746.	2.0	18
60	Electro-mechanical response of top-gated LaAlO3/SrTiO3. Journal of Applied Physics, 2016, 119, .	2.5	11
61	Conformally coated BiVO4 nanodots on porosity-controlled WO3 nanorods as highly efficient type II heterojunction photoanodes for water oxidation. Nano Energy, 2016, 28, 250-260.	16.0	158
62	Large enhancement of the photovoltaic effect in ferroelectric complex oxides through bandgap reduction. Scientific Reports, 2016, 6, 28313.	3.3	34
63	Atomic and electronic structures of superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:physical .<="" 2015,="" 91,="" b,="" review="" td=""><td>:n3:22.2<td>ո8:mn></td></td></mml:physical></mml:msub></mml:mrow></mml:math>	:n 3: 22.2 <td>ո8:mn></td>	ո 8 :mn>
64	Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.	12.6	259
65	Electrodynamics of superconducting pnictide superlattices. Applied Physics Letters, 2014, 104, 222601.	3.3	4
66	Development of very high Jc in Ba(Fe1-xCox)2As2 thin films grown on CaF2. Scientific Reports, 2014, 4, 7305.	3.3	45
67	Surface stability of epitaxial La0.7Sr0.3MnO3 thin films on (111)-oriented SrTiO3. Journal of Applied Physics, 2013, 113, .	2.5	31
68	Transmittance and reflectance measurements at terahertz frequencies on a superconducting BaFe1.84Co0.16As2 ultrathin film: an analysis of the optical gaps in the Co-doped BaFe2As2 pnictide. European Physical Journal B, 2013, 86, 1.	1.5	8
69	Retention of resistance states in ferroelectric tunnel memristors. Applied Physics Letters, 2013, 103, .	3.3	26
70	Epitaxial Al2O3 capacitors for low microwave loss superconducting quantum circuits. APL Materials, 2013, 1, .	5.1	9
71	Artificially engineered superlattices of pnictide superconductors. Nature Materials, 2013, 12, 392-396. Artificial and self-assembled vortex-pinning centers in superconducting Ba(Fe <mml:math) 0="" etqq0="" ove<="" rgbt="" td="" tj=""><td>27.5 rlock 10 Tf</td><td>70 50 87 Td (x</td></mml:math)>	27.5 rlock 10 Tf	70 50 87 Td (x
72		3.2	43

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73	Switchable Induced Polarization in LaAlO ₃ /SrTiO ₃ Heterostructures. Nano Letters, 2012, 12, 1765-1771.	9.1	167
74	Dependence of Epitaxial $m Ba}{(m Fe]_{1-m x}}m Co]_{m x})_{2}m As]_{2}\ Thin Films Properties on m SrTiO]_{3}\ Template Thickness. IEEE Transactions on Applied Superconductivity, 2011, 21, 2882-2886.$	1.7	8
75	Metallic and Insulating Oxide Interfaces Controlled by Electronic Correlations. Science, 2011, 331, 886-889.	12.6	212
76	The Nature of Polarization Fatigue in BiFeO < sub > 3 < /sub > . Advanced Materials, 2011, 23, 1621-1625. Superfluid density measurements of mml "http://www.w3.org/1998/Math/MathML"	21.0	127
77	display="inline"> <mml:mrow><mml:mi mathvariant="normal">Ba</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi) (math<="" 0.784314="" 1="" 10="" 50="" 587="" etqq1="" overlock="" rgbt="" td="" tf="" tj=""><td>nvariant="r 3.2</td><td>normal">Co< 27</td></mml:mi)></mml:msub></mml:mrow>	nvariant="r 3.2	normal">Co< 27
78	Self-assembled oxide nanopillars in epitaxial BaFe2As2 thin films for vortex pinning. Applied Physics Letters, 2011, 98, .	3.3	42
79	Conductance asymmetry in point-contacts on epitaxial thin films of Ba(Fe0.92Co0.08)2As2. Applied Physics Letters, 2010, 97, .	3.3	8
80	Multi-gap superconductivity in a BaFe1.84Co0.16As2 film from optical measurements at terahertz frequencies. European Physical Journal B, 2010, 77, 25-30.	1.5	26
81	New Fe-based superconductors: properties relevant for applications. Superconductor Science and Technology, 2010, 23, 034003.	3.5	253
82	Template engineering of Co-doped BaFe2As2 single-crystal thin films. Nature Materials, 2010, 9, 397-402.	27.5	185
83	Strong vortex pinning in Co-doped BaFe2As2 single crystal thin films. Applied Physics Letters, 2010, 96, .	3.3	66
84	Pair-breaking effects and coherence peak in the terahertz conductivity of superconductingBaFe2â^'2xCo2xAs2thin films. Physical Review B, 2010, 82, .	3.2	32
85	The role of reflective p-contacts in the enhancement of light extraction in nanotextured vertical InGaN light-emitting diodes. Nanotechnology, 2010, 21, 025203.	2.6	21
86	Phase-incoherent Superconducting Pairs in the Normal State of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ba</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo< td=""><td>> â7'.&/mml</td><td>:m202> < mml:n</td></mml:mo<></mml:mrow></mml:msub></mml:math>	> â 7'. &/mml	:m202> < mml:n
87	Physical Review Letters, 2010, 105, 167003. Weak-link behavior of grain boundaries in superconducting Ba(Fe1â^'xCox)2As2 bicrystals. Applied Physics Letters, 2009, 95, .	3.3	163
88	Interfacial Band Bendings in Al Ohmic Contacts to Laser-Irradiated Ga-Face and N-Face n-GaN. Electrochemical and Solid-State Letters, 2009, 12, H405.	2.2	10
89	Growth of \${m MgB}_{2}\$ Thin Films <i>In Situ</i> by RF Magnetron Sputtering With a Pocket Heater. IEEE Transactions on Applied Superconductivity, 2009, 19, 2811-2814.	1.7	2
90	Influence of symmetry mismatch on heteroepitaxial growth of perovskite thin films. Applied Physics Letters, 2008, 93, .	3.3	39

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91	Highly reflective MgAl alloy/Agâ^•Ru Ohmic contact with low contact resistivity on p-type GaN. Applied Physics Letters, 2007, 91, 222115.	3.3	5