Yong-li Gao

List of Publications by Year
in descending order

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445 papers	23,497 citations	8180 76 h-index	11607 135 g-index
449 all docs	449 docs citations	449 times ranked	20835 citing authors

#	Article	IF	Citations
1	Sensitive X-ray detectors made of methylammonium lead tribromide perovskite single crystals. Nature Photonics, 2016, 10, 333-339.	31.4	1,271
2	Efficient, high yield perovskite photovoltaic devices grown by interdiffusion of solution-processed precursor stacking layers. Energy and Environmental Science, 2014, 7, 2619-2623.	30.8	1,154
3	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. Nature Energy, 2019, 4, 408-415.	39.5	831
4	Stabilizing halide perovskite surfaces for solar cell operation with wide-bandgap lead oxysalts. Science, 2019, 365, 473-478.	12.6	723
5	Work function of indium tin oxide transparent conductor measured by photoelectron spectroscopy. Applied Physics Letters, 1996, 68, 2699-2701.	3.3	576
6	Qualifying composition dependent p and n self-doping in CH3NH3PbI3. Applied Physics Letters, 2014, 105, .	3.3	518
7	Platinum-Maghemite Coreâ^'Shell Nanoparticles Using a Sequential Synthesis. Nano Letters, 2003, 3, 261-264.	9.1	400
8	Interfacial chemistry of Alq3 and LiF with reactive metals. Journal of Applied Physics, 2001, 89, 2756-2765.	2.5	339
9	High Performance Allâ€Polymer Solar Cell via Polymer Sideâ€Chain Engineering. Advanced Materials, 2014, 26, 3767-3772.	21.0	320
10	Understanding the formation and evolution of interdiffusion grown organolead halide perovskite thin films by thermal annealing. Journal of Materials Chemistry A, 2014, 2, 18508-18514.	10.3	276
11	2D MoS₂ Neuromorphic Devices for Brainâ€Like Computational Systems. Small, 2017, 13, 1700933.	10.0	268
12	Determination of spin injection and transport inÂaÂferromagnet/organic semiconductor heterojunction by two-photon photoemission. Nature Materials, 2009, 8, 115-119.	27.5	266
13	Light-Induced Degradation of CH₃NH₃PbI₃ Hybrid Perovskite Thin Film. Journal of Physical Chemistry C, 2017, 121, 3904-3910.	3.1	265
14	Electronic structure symmetry of interfaces between pentacene and metals. Applied Physics Letters, 2002, 80, 4384-4386.	3.3	242
15	Reducing Surface Halide Deficiency for Efficient and Stable Iodide-Based Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 3989-3996.	13.7	236
16	A photoelectron spectroscopy study on the indium tin oxide treatment by acids and bases. Applied Physics Letters, 1999, 74, 880-882.	3.3	217
17	Surface analytical studies of interfaces in organic semiconductor devices. Materials Science and Engineering Reports, 2010, 68, 39-87.	31.8	215
18	Large-area perovskite nanowire arrays fabricated by large-scale roll-to-roll micro-gravure printing and doctor blading. Nanoscale, 2016, 8, 5350-5357.	5.6	213

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19	2D electric-double-layer phototransistor for photoelectronic and spatiotemporal hybrid neuromorphic integration. Nanoscale, 2019, 11, 1360-1369.	5.6	195
20	The effect of molybdenum oxide interlayer on organic photovoltaic cells. Applied Physics Letters, 2009, 95, .	3.3	190
21	Energy level evolution of air and oxygen exposed molybdenum trioxide films. Applied Physics Letters, 2010, 96, .	3.3	189
22	Photoemission study of aluminum/tris-(8-hydroxyquinoline) aluminum and aluminum/LiF/tris-(8-hydroxyquinoline) aluminum interfaces. Journal of Applied Physics, 2000, 87, 375-379.	2.5	188
23	Theoretical predictions on the electronic structure and charge carrier mobility in 2D Phosphorus sheets. Scientific Reports, 2015, 5, 9961.	3.3	181
24	Tuning the threshold voltage of carbon nanotube transistors by n-type molecular doping for robust and flexible complementary circuits. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4776-4781.	7.1	179
25	Time-resolved two-photon photoemission from Cu(100): Energy dependence of electron relaxation. Physical Review B, 1994, 50, 8957-8960.	3.2	173
26	Highâ€Performance Flexible Perovskite Solar Cells via Precise Control of Electron Transport Layer. Advanced Energy Materials, 2019, 9, 1901419.	19.5	167
27	Finite Size Effects on Electroluminescence of Nanoscale Semiconducting Polymer Heterojunctions. Chemistry of Materials, 1997, 9, 409-412.	6.7	164
28	Investigation of the interface formation between calcium and tris-(8-hydroxy quinoline) aluminum. Applied Physics Letters, 1998, 72, 2689-2691.	3.3	163
29	Evaluation of Solution-Processable Carbon-Based Electrodes for All-Carbon Solar Cells. ACS Nano, 2012, 6, 10384-10395.	14.6	154
30	Interfacial electronic structure at the CH3NH3PbI3/MoOx interface. Applied Physics Letters, 2015, 106, .	3.3	152
31	Accelerating CO₂ Electroreduction to Multicarbon Products via Synergistic Electricâ€“Thermal Field on Copper Nanoneedles. Journal of the American Chemical Society, 2022, 144, 3039-3049.	13.7	147
32	Strong and Stable Doping of Carbon Nanotubes and Graphene by MoO_x for Transparent Electrodes. Nano Letters, 2012, 12, 3574-3580.	9.1	146
33	Observation of surface enhanced multiphoton photoemission from metal surfaces in the short pulse limit. Journal of Chemical Physics, 1995, 102, 8606-8613.	3.0	144
34	Interfacial Molecular Doping of Metal Halide Perovskites for Highly Efficient Solar Cells. Advanced Materials, 2020, 32, e2001581.	21.0	139
35	Artificial Synapses Based on in-Plane Gate Organic Electrochemical Transistors. ACS Applied Materials & Interfaces, 2016, 8, 26169-26175.	8.0	138
36	A Subâ€10 nm Vertical Organic/Inorganic Hybrid Transistor for Painâ€Perceptual and Sensitizationâ€Regulated Nociceptor Emulation. Advanced Materials, 2020, 32, e1906171.	21.0	135

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37	Importance of indium tin oxide surface acido basicity for charge injection into organic materials based light emitting diodes. Journal of Applied Physics, 2000, 87, 7973-7980.	2.5	124
38	Dramatic photoluminescence quenching of phenylene vinylene oligomer thin films upon submonolayer Ca deposition. Applied Physics Letters, 1996, 69, 1492-1494.	3.3	123
39	Energy Dependence of Electron Lifetime in Graphite Observed with Femtosecond Photoemission Spectroscopy. Physical Review Letters, 1996, 76, 483-486.	7.8	120
40	Tuning the Carrier Injection Efficiency for Organic Light-Emitting Diodesâ€. Journal of Physical Chemistry B, 2000, 104, 3948-3952.	2.6	120
41	Multi-gate organic neuron transistors for spatiotemporal information processing. Applied Physics Letters, 2017, 110, .	3.3	117
42	Energy level evolution of molybdenum trioxide interlayer between indium tin oxide and organic semiconductor. Applied Physics Letters, 2010, 96, 073304.	3.3	114
43	Lowâ€Temperature Processed, Efficient, and Highly Reproducible Cesiumâ€Doped Triple Cation Perovskite Planar Heterojunction Solar Cells. Solar Rrl, 2018, 2, 1700209.	5.8	113
44	Degradation by Exposure of Coevaporated CH₃NH₃PbI₃ Thin Films. Journal of Physical Chemistry C, 2015, 119, 23996-24002.	3.1	112
45	Broadband spatial self-phase modulation of black phosphorous. Optics Letters, 2016, 41, 1704.	3.3	111
46	Organic Schottky barrier photovoltaic cells based on MoOx/C60. Applied Physics Letters, 2010, 96, .	3.3	110
47	Effects of Precursor Ratios and Annealing on Electronic Structure and Surface Composition of CH₃NH₃PbI₃ Perovskite Films. Journal of Physical Chemistry C, 2016, 120, 215-220.	3.1	108
48	Trap states of tris-8-(hydroxyquinoline) aluminum and naphthyl-substituted benzidine derivative using thermally stimulated luminescence. Applied Physics Letters, 1998, 73, 1457-1459.	3.3	107
49	Congeneric Incorporation of CsPbBr₃ Nanocrystals in a Hybrid Perovskite Heterojunction for Photovoltaic Efficiency Enhancement. ACS Energy Letters, 2018, 3, 30-38.	17.4	106
50	Work function recovery of air exposed molybdenum oxide thin films. Applied Physics Letters, 2012, 101, 093305.	3.3	105
51	Electronic structures of theYBa2Cu3O7â^'xsurface and its modification by sputtering and adatoms of Ti and Cu. Physical Review B, 1988, 38, 6500-6512.	3.2	104
52	Valence bands, oxygen in planes and chains, and surface changes for single crystals ofM2CuO4andMBa2Cu3Ox(M=Pr,Nd,Eu,Gd). Physical Review B, 1988, 38, 4668-4676.	3.2	101
53	Highâ€Performance Broadband Perovskite Photodetectors Based on CH₃NH₃PbI₃/C8BTBT Heterojunction. Advanced Electronic Materials, 2017, 3, 1700058.	5.1	101
54	Interface degradation of perovskite solar cells and its modification using an annealing-free TiO2 NPs layer. Organic Electronics, 2016, 30, 30-35.	2.6	100

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55	Solar-stimulated optoelectronic synapse based on organic heterojunction with linearly potentiated synaptic weight for neuromorphic computing. Nano Energy, 2019, 66, 104095.	16.0	100
56	Solar-blind SnO2 nanowire photo-synapses for associative learning and coincidence detection. Nano Energy, 2019, 62, 393-400.	16.0	100
57	Coplanar Multigate MoS₂ Electric-Double-Layer Transistors for Neuromorphic Visual Recognition. ACS Applied Materials & Interfaces, 2018, 10, 25943-25948.	8.0	99
58	Flexible Neuromorphic Architectures Based on Self-Supported Multiterminal Organic Transistors. ACS Applied Materials & Interfaces, 2018, 10, 26443-26450.	8.0	99
59	Ultraviolet saturable absorption and ultrafast carrier dynamics in ultrasmall black phosphorus quantum dots. Nanoscale, 2017, 9, 4683-4690.	5.6	98
60	Efficient and non-hysteresis CH3NH3PbI3/PCBM planar heterojunction solar cells. Organic Electronics, 2015, 24, 106-112.	2.6	94
61	Femtosecond photoemission study of ultrafast electron dynamics in single-crystal Au(111) films. Physical Review B, 1998, 58, 10948-10952.	3.2	93
62	Oxidation study of GaN using x-ray photoemission spectroscopy. Applied Physics Letters, 1999, 75, 2602-2604.	3.3	90
63	Efficient planar heterojunction perovskite solar cells fabricated by in-situ thermal-annealing doctor blading in ambient condition. Organic Electronics, 2017, 45, 302-307.	2.6	90
64	Organic field-effect transistor and its photoresponse using a benzo[1,2-b:4,5-bâ€²]difuran-based donorâ€“acceptor conjugated polymer. Organic Electronics, 2014, 15, 1050-1055.	2.6	88
65	Prominent Efficiency Enhancement in Perovskite Solar Cells Employing Silica-Coated Gold Nanorods. Journal of Physical Chemistry C, 2016, 120, 6996-7004.	3.1	87
66	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. ACS Catalysis, 2019, 9, 10870-10875.	11.2	86
67	Deep-ultraviolet-triggered neuromorphic functions in In-Zn-O phototransistors. Applied Physics Letters, 2018, 113, .	3.3	84
68	Flexible and air-stable perovskite network photodetectors based on CH3NH3PbI3/C8BTBT bulk heterojunction. Applied Physics Letters, 2018, 112, .	3.3	84
69	Rubidium Doping to Enhance Carrier Transport in CsPbBr₃ Single Crystals for High-Performance X-Ray Detection. ACS Applied Materials & Interfaces, 2020, 12, 989-996.	8.0	84
70	Gap-State Induced Photoluminescence Quenching of Phenylene Vinylene Oligomer and Its Recovery by Oxidation. Physical Review Letters, 1997, 78, 3955-3958.	7.8	83
71	Direct observation of Fermi-level pinning in Cs-doped CuPc film. Applied Physics Letters, 2001, 79, 4148-4150.	3.3	83
72	Silicon/Molecule Interfacial Electronic Modifications. Journal of the American Chemical Society, 2008, 130, 1699-1710.	13.7	83

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73	Efficient electron-blocking layer-free planar heterojunction perovskite solar cells with a high open-circuit voltage. Organic Electronics, 2015, 26, 265-272.	2.6	83
74	Electronic structures at the interface between Au and CH₃NH₃PbI₃. Physical Chemistry Chemical Physics, 2015, 17, 896-902.	2.8	82
75	Argon Plasma Treatment to Tune Perovskite Surface Composition for High Efficiency Solar Cells and Fast Photodetectors. Advanced Materials, 2018, 30, 1705176.	21.0	81
76	Thermodynamic equilibrium and metal-organic interface dipole. Applied Physics Letters, 2002, 81, 2752-2754.	3.3	79
77	Photoemission study of the interface between phenyl diamine and treated indiumâ€“tinâ€“oxide. Applied Physics Letters, 1999, 75, 1357-1359.	3.3	75
78	Currentâ€“voltage characteristic of organic light emitting diodes. Applied Physics Letters, 1998, 72, 3038-3040.	3.3	74
79	Interface formation of Ca with poly(pâ€phenylene vinylene). Journal of Applied Physics, 1993, 73, 7894-7899.	2.5	73
80	Femtosecond photoemission study of ultrafast electron dynamics on Cu(100). Physical Review B, 1997, 56, 1099-1102.	3.2	73
81	Long-term synaptic plasticity simulated in ionic liquid/polymer hybrid electrolyte gated organic transistors. Organic Electronics, 2017, 47, 126-132.	2.6	70
82	Large-area and high-performance CH3NH3PbI3 perovskite photodetectors fabricated via doctor blading in ambient condition. Organic Electronics, 2017, 49, 347-354.	2.6	70
83	Multilevel Nonvolatile Organic Photomemory Based on Vanadyl-Phthalocyanine/para-Sexiphenyl Heterojunctions. ACS Photonics, 2017, 4, 2573-2579.	6.6	68
84	Aluminum phthalocyanine chloride/C60 organic photovoltaic cells with high open-circuit voltages. Solar Energy Materials and Solar Cells, 2009, 93, 1688-1691.	6.2	67
85	Strong interface p-doping and band bending in C60 on MoOx. Organic Electronics, 2011, 12, 1588-1593.	2.6	67
86	A selfâ€consistent microscopic theory of hydrogen bond melting with application to poly(dG)â‹…poly(dC). Journal of Chemical Physics, 1984, 80, 6291-6298.	3.0	66
87	Environmental Surface Stability of the MAPbBr₃ Single Crystal. Journal of Physical Chemistry C, 2018, 122, 3513-3522.	3.1	66
88	Efficient and stable planar hole-transport-material-free perovskite solar cells using low temperature processed SnO2 as electron transport material. Organic Electronics, 2018, 53, 235-241.	2.6	66
89	Highâ€Performance Organic Heterojunction Phototransistors Based on Highly Ordered Copper Phthalocyanine/paraâ€Sexiphenyl Thin Films. Advanced Functional Materials, 2017, 27, 1604933.	14.9	64
90	Highly Efficient, Solution-Processed CsPbI₂Br Planar Heterojunction Perovskite Solar Cells via Flash Annealing. ACS Photonics, 2018, 5, 4104-4110.	6.6	64

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91	Ion Migration Accelerated Reaction between Oxygen and Metal Halide Perovskites in Light and Its Suppression by Cesium Incorporation. Advanced Energy Materials, 2021, 11, 2002552.	19.5	64
92	High-Efficiency Inverted Polymer Solar Cells with Double Interlayer. ACS Applied Materials & Interfaces, 2012, 4, 866-870.	8.0	63
93	Photo-active and electro-active protein films prepared by reconstitution with metalloporphyrins self-assembled on gold. Journal of Materials Chemistry, 1996, 6, 369.	6.7	62
94	Ion-gel gated field-effect transistors with solution-processed oxide semiconductors for bioinspired artificial synapses. Organic Electronics, 2016, 39, 64-70.	2.6	62
95	Resonant inverse photoemission ofBi2Ca1+xSr2â^'xCu2O8+yandYBa2Cu3O7â^'x, unoccupied oxygen states, and plasmons. Physical Review B, 1989, 39, 2928-2931.	3.2	61
96	Enhanced efficiency and stability of polymer solar cells with TiO2 nanoparticles buffer layer. Organic Electronics, 2014, 15, 835-843.	2.6	61
97	Energy level bending and alignment at the interface between Ca and a phenylene vinylene oligomer. Applied Physics Letters, 1996, 69, 1080-1082.	3.3	60
98	Halogen Precursor Route to Poly[(2,3-diphenyl-p-phenylene)vinylene] (DP-PPV):Â Synthesis, Photoluminescence, Electroluminescence, and Photoconductivity. Macromolecules, 1997, 30, 6567-6574.	4.8	59
99	Inverse photoemission studies of the empty electronic states and surface stability ofLa1.85Sr0.15CuO4. Physical Review B, 1987, 36, 3971-3974.	3.2	58
100	Incident-beam effects in electron-stimulated Auger-electron diffraction. Physical Review B, 1991, 43, 9692-9699.	3.2	58
101	Theoretical Prediction of Electronic Structure and Carrier Mobility in Single-walled MoS2 Nanotubes. Scientific Reports, 2014, 4, 4327.	3.3	58
102	Optoelectronic Inâ€Gaâ€Znâ€O Memtransistors for Artificial Vision System. Advanced Functional Materials, 2020, 30, 2002325.	14.9	57
103	Surface Analytical Studies of Interface Formation in Organic Light-Emitting Devices. Accounts of Chemical Research, 1999, 32, 247-255.	15.6	56
104	Electronic structure of Cs-doped tris(8-hydroxyquinoline) aluminum. Applied Physics Letters, 2005, 86, 213508.	3.3	56
105	MoOx back contact for CdS/CdTe thin film solar cells: Preparation, device characteristics, and stability. Solar Energy Materials and Solar Cells, 2012, 99, 349-355.	6.2	56
106	Observation of large nonlinear responses in a graphene-Bi2Te3 heterostructure at a telecommunication wavelength. Applied Physics Letters, 2016, 108, .	3.3	56
107	Irreversible light-soaking effect of perovskite solar cells caused by light-induced oxygen vacancies in titanium oxide. Applied Physics Letters, 2017, 111, .	3.3	56
108	Deposition-induced photoluminescence quenching of tris-(8-hydroxyquinoline) aluminum. Applied Physics Letters, 1997, 71, 1005-1007.	3.3	55

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109	Cs doping and energy level shift in CuPc. Chemical Physics Letters, 2003, 380, 451-455.	2.6	55
110	Fractal-mound growth of pentacene thin films. Physical Review B, 2006, 74, .	3.2	55
111	Ultra-broadband Nonlinear Saturable Absorption for Two-dimensional Bi2TexSe3â^'x Nanosheets. Scientific Reports, 2016, 6, 33070.	3.3	55
112	Controllable thin-film morphology and structure for 2,7-dioctyl[1]benzothieno[3,2- b][1]benzothiophene (C8BTBT) based organic field-effect transistors. Organic Electronics, 2016, 36, 73-81.	2.6	55
113	High-performance ultraviolet photodetectors based on CdS/CdS:SnS₂superlattice nanowires. Nanoscale, 2016, 8, 14580-14586.	5.6	54
114	Large-scale roll-to-roll printed, flexible and stable organic bulk heterojunction photodetector. Npj Flexible Electronics, 2018, 2, .	10.7	54
115	Band bending modified tunneling at metal/conjugated polymer interfaces. Applied Physics Letters, 1995, 67, 2705-2707.	3.3	53
116	Semiconductor quantum dot-sensitized rainbow photocathode for effective photoelectrochemical hydrogen generation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11297-11302.	7.1	53
117	Influence of copper phthalocynanine on the charge injection and growth modes for organic light emitting diodes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1869-1874.	2.1	52
118	Artificial synapses based on biopolymer electrolyte-coupled SnO₂nanowire transistors. Journal of Materials Chemistry C, 2016, 4, 11110-11117.	5.5	52
119	Femtosecond time-resolved photoemission study of hot electron relaxation at the GaAs(100) surface. Chemical Physics, 1996, 205, 91-108.	1.9	50
120	Interface formation between NPB and processed indium tin oxide. Thin Solid Films, 2000, 363, 42-46.	1.8	50
121	Electronic structure of interfaces between copper-hexadecafluoro-phthalocyanine and 2,5-bis(4-biphenylyl) bithiophene. Applied Physics Letters, 2007, 91, .	3.3	49
122	Flexible organic field-effect transistors on biodegradable cellulose paper with efficient reusable ion gel dielectrics. RSC Advances, 2015, 5, 14567-14574.	3.6	49
123	Enhanced Nonlinear Optical Response of Rectangular MoS₂ and MoS₂/TiO₂ in Dispersion and Film. Journal of Physical Chemistry C, 2016, 120, 18243-18248.	3.1	49
124	Stable monolithic hole-conductor-free perovskite solar cells using TiO 2 nanoparticle binding carbon films. Organic Electronics, 2017, 45, 131-138.	2.6	49
125	High-performance solar-blind SnO₂ nanowire photodetectors assembled using optical tweezers. Nanoscale, 2019, 11, 2162-2169.	5.6	49
126	Iodine and Chlorine Element Evolution in CH₃NH₃PbI_{3â€“x}Cl_x Thin Films for Highly Efficient Planar Heterojunction Perovskite Solar Cells. Chemistry of Materials, 2016, 28, 2742-2749.	6.7	48

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127	Molecular beam epitaxial growth of BGaAs ternary compounds. Journal of Electronic Materials, 2000, 29, 1387-1391.	2.2	47
128	Photoemission study of energy alignment at the metal/Alq3 interfaces. Applied Surface Science, 2001, 175-176, 412-418.	6.1	47
129	Effects of annealing on structure and composition of LSMO thin films. Physica B: Condensed Matter, 2015, 477, 14-19.	2.7	47
130	Air-Induced High-Quality CH₃NH₃PbI₃ Thin Film for Efficient Planar Heterojunction Perovskite Solar Cells. Journal of Physical Chemistry C, 2017, 121, 6575-6580.	3.1	47
131	A picosecond electron gun for surface analysis. Review of Scientific Instruments, 1995, 66, 1000-1009.	1.3	46
132	Half-metallicity and spin-polarization transport properties in transition-metal atoms single-edge-terminated zigzag Î±-graphyne nanoribbons. Organic Electronics, 2017, 44, 168-175.	2.6	46
133	High electrical conductivity of individual epitaxially grown MoO2 nanorods. Applied Physics Letters, 2017, 111, .	3.3	46
134	Charge Transfer at the PTCDA/Black Phosphorus Interface. Journal of Physical Chemistry C, 2017, 121, 18084-18094.	3.1	46
135	Unoccupied electronic states and surface phenomena for YBa2Cu3O6.9. Physical Review B, 1987, 36, 3899-3902.	3.2	45
136	Xâ€ray photoemission investigations of the interface formation of Ca and poly(pâ€phenylene vinylene). Journal of Chemical Physics, 1992, 97, 6991-6993.	3.0	45
137	Efficient organic photovoltaics using solution-processed, annealing-free TiO2 nanocrystalline particles as an interface modification layer. Organic Electronics, 2015, 17, 253-261.	2.6	45
138	Accelerated electron extraction and improved UV stability of TiO2 based perovskite solar cells by SnO2 based surface passivation. Organic Electronics, 2018, 59, 184-189.	2.6	45
139	Synthesis of Highly Phenylated Poly(p-phenylenevinylenes) via a Chlorine Precursor Route. Macromolecules, 1998, 31, 631-636.	4.8	44
140	Electronic structure evolution of fullerene on CH3NH3PbI3. Applied Physics Letters, 2015, 106, .	3.3	44
141	Tri-phase all-optical switching and broadband nonlinear optical response in Bi_2Se_3 nanosheets. Optics Express, 2017, 25, 18346.	3.4	44
142	Creating a Dualâ€Functional 2D Perovskite Layer at the Interface to Enhance the Performance of Flexible Perovskite Solar Cells. Small, 2021, 17, e2102368.	10.0	44
143	Band structure measurement of organic single crystal with angle-resolved photoemission. Applied Physics Letters, 2010, 96, 222106.	3.3	43
144	Surface analytical investigation on organometal triiodide perovskite. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, .	1.2	43

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145	Investigation on thermal evaporated CH3NH3PbI3 thin films. AIP Advances, 2015, 5, .	1.3	42
146	Solution-processed natural gelatin was used as a gate dielectric for the fabrication of oxide field-effect transistors. Organic Electronics, 2016, 38, 357-361.	2.6	42
147	Accelerated hole-extraction in carbon-electrode based planar perovskite solar cells by moisture-assisted post-annealing. Applied Physics Letters, 2019, 114, .	3.3	42
148	Role of molybdenum oxide for organic electronics: Surface analytical studies. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 040801.	1.2	41
149	Efficient and stable inverted polymer solar cells using TiO2 nanoparticles and analysized by Mott-Schottky capacitance. Organic Electronics, 2014, 15, 1745-1752.	2.6	41
150	A homogeneous pâ€“n junction diode by selective doping of few layer MoSe₂ using ultraviolet ozone for high-performance photovoltaic devices. Nanoscale, 2019, 11, 13469-13476.	5.6	41
151	Fully-printed, flexible cesium-doped triple cation perovskite photodetector. Applied Materials Today, 2019, 15, 389-397.	4.3	41
152	Interfaces in organic semiconductor devices. Thin Solid Films, 2002, 417, 101-106.	1.8	40
153	Experimental study on thickness-related electrical characteristics in organic/metal-nanocluster/organic systems. Journal of Applied Physics, 2005, 98, 054303.	2.5	40
154	Hybrid optoelectronic synaptic functionality realized with ion gel-modulated In2O3 phototransistors. Organic Electronics, 2019, 71, 72-78.	2.6	40
155	A modified selfâ€consistent phonon theory of hydrogen bond melting. Journal of Chemical Physics, 1984, 80, 2242-2243.	3.0	39
156	Disruption, segregation, and passivation for Pd and noble-metal overlayers on YBa2Cu3O6.9. Physical Review B, 1988, 38, 232-239.	3.2	39
157	An xâ€ray photoemission spectroscopy study of the role of sample preparation on band bending at the interface of Al with poly(pâ€phenylene vinylene). Journal of Applied Physics, 1994, 75, 7526-7530.	2.5	39
158	Electron spectroscopy studies of interface formation between metal electrodes and luminescent organic materials. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 2574-2578.	2.1	39
159	Interfacial electronic structures of buffer-modified pentacene/C60-based charge generation layer. Organic Electronics, 2015, 17, 325-333.	2.6	39
160	Degradation of co-evaporated perovskite thin film in air. Chemical Physics Letters, 2016, 649, 151-155.	2.6	39
161	Efficient and stable planar heterojunction perovskite solar cells fabricated under ambient conditions with high humidity. Organic Electronics, 2018, 55, 140-145.	2.6	39
162	Probing Phase Distribution in 2D Perovskites for Efficient Device Design. ACS Applied Materials & Interfaces, 2020, 12, 3127-3133.	8.0	39

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163	dstates, exchange splitting, and Mn electronic configuration inCd1â^'xMnxTe. Physical Review B, 1989, 40, 12009-12012.	3.2	38
164	Interface formation and energy level alignment of pentacene on SiO2. Journal of Applied Physics, 2003, 94, 5782-5786.	2.5	38
165	Spatially-correlated neuron transistors with ion-gel gating for brain-inspired applications. Organic Electronics, 2017, 44, 25-31.	2.6	38
166	Highly Efficient Perovskite Solar Cells Processed Under Ambient Conditions Using In Situ SubstrateâEHeatingâEAssisted Deposition. Solar Rrl, 2019, 3, 1800318.	5.8	37
167	Effects of Al, Ag, and Ca on luminescence of organic materials. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 1745-1749.	2.1	36
168	Electronic structure evolution and energy level alignment at C60/4,4â€²-cyclohexylidenebis[N,N-bis(4-methylphenyl) benzenamine]/MoOx/indium tin oxide interfaces. Journal of Applied Physics, 2014, 115, .	2.5	36
169	Thickness-Dependent Air-Exposure-Induced Phase Transition of CuPc Ultrathin Films to Well-Ordered One-Dimensional Nanocrystals on Layered Substrates. Journal of Physical Chemistry C, 2015, 119, 4217-4223.	3.1	36
170	Dependence of power conversion properties of hole-conductor-free mesoscopic perovskite solar cells on the loading of perovskite crystallites. Organic Electronics, 2018, 61, 119-124.	2.6	36
171	Hydroxyapatite Thin Films with Giant Electrical Polarization. Chemistry of Materials, 2015, 27, 1164-1171.	6.7	35
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