Norbert Koch

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5287739/publications.pdf

Version: 2024-02-01

412 papers	23,658 citations	6606 79 h-index	11047 137 g-index
429 all docs	429 docs citations	429 times ranked	20312 citing authors

#	Article	IF	Citations
1	Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the Bâ€“B Bond. Angewandte Chemie - International Edition, 2022, 61, .	7.2	7
2	Doping Approaches for Organic Semiconductors. Chemical Reviews, 2022, 122, 4420-4492.	23.0	153
3	Understanding and suppressing non-radiative losses in methylammonium-free wide-bandgap perovskite solar cells. Energy and Environmental Science, 2022, 15, 714-726.	15.6	68
4	Understanding the evolution of the Raman spectra of molecularly p-doped poly(3-hexylthiophene-2,5-diyl): signatures of polarons and bipolarons. Physical Chemistry Chemical Physics, 2022, 24, 3109-3118.	1.3	21
5	Illuminationâ€Driven Energy Level Realignment at Buried Interfaces between Organic Charge Transport Layers and a Lead Halide Perovskite. Solar Rrl, 2022, 6, .	3.1	8
6	Understanding Performance Limiting Interfacial Recombination in pin Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	95
7	Ultrafast Pumpâ€“Probe Microscopy on 2D Transition Metal Dichalcogenides. Advanced Photonics Research, 2022, 3, .	1.7	3
8	Titelbild: Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the Bâ€“B Bond (Angew. Chem. 1/2022). Angewandte Chemie, 2022, 134, .	1.6	1
9	Role of Heterojunctions of Coreâ€“Shell Heterostructures in Gas Sensing. ACS Applied Materials & Interfaces, 2022, 14, 22041-22052.	4.0	12
10	Low Temperature Heating of Silverâ€Mediated Exfoliation of MoS₂. Advanced Materials Interfaces, 2022, 9, .	1.9	9
11	Atomic Layer Deposition of MoS₂ Decorated TiO₂ Nanotubes for Photoelectrochemical Water Splitting. Advanced Materials Interfaces, 2022, 9, .	1.9	8
12	Quantum Efficiency Enhancement of Lead-Halide Perovskite Nanocrystal LEDs by Organic Lithium Salt Treatment. ACS Applied Materials & Interfaces, 2022, 14, 28985-28996.	4.0	9
13	Use of a Multiple Hydride Donor To Achieve an n-Doped Polymer with High Solvent Resistance. ACS Applied Materials & Interfaces, 2022, 14, 33598-33605.	4.0	3
14	The Interlayer Method: A Universal Tool for Energy Level Alignment Tuning at Inorganic/Organic Semiconductor Heterojunctions. Advanced Functional Materials, 2021, 31, 2010174.	7.8	18
15	Electronic properties of metal halide perovskites and their interfaces: the basics. Materials Horizons, 2021, , .	6.4	14
16	Direct growth of crystalline triazine-based graphdiyne using surface-assisted deprotectionâ€“polymerisation. Chemical Science, 2021, 12, 12661-12666.	3.7	9
17	Bi-functional interfaces by poly(ionic liquid) treatment in efficient pin and nip perovskite solar cells. Energy and Environmental Science, 2021, 14, 4508-4522.	15.6	76
18	The energy level alignment of the ferroceneâ€“EGaIn interface studied with photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 13458-13467.	1.3	5

#	Article	IF	Citations
19	Disentangling Bulk and Interface Phenomena in a Molecularly Doped Polymer Semiconductor. Advanced Optical Materials, 2021, 9, 2002039.	3.6	6
20	Tuning material properties of amorphous zinc oxynitride thin films by magnesium addition. APL Materials, 2021, 9, 021120.	2.2	2
21	Direct Probing of Gap States and Their Passivation in Halide Perovskites by High-Sensitivity, Variable Energy Ultraviolet Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 5217-5225.	1.5	12
22	Characterization of Charge States in Conducting Organic Nanoparticles by X-ray Photoemission Spectroscopy. Materials, 2021, 14, 2058.	1.3	1
23	Typeâ€I Energy Level Alignment at the PTCDAâ€"Monolayer MoS₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. Advanced Science, 2021, 8, 2100215.	5.6	19
24	Temperatureâ€Dependent Electronic Groundâ€State Charge Transfer in van der Waals Heterostructures. Advanced Materials, 2021, 33, e2008677.	11.1	12
25	Two-dimensional plasmonic polarons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -doped monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mn>2 Physical Review B, 2021, 103, .	1.1	13
26	Mechanism and Timescales of Reversible pâ€Doping of Methylammonium Lead Triiodide by Oxygen. Advanced Materials, 2021, 33, e2100211.	11.1	17
27	Band gap engineering in blended organic semiconductor films based on dielectric interactions. Nature Materials, 2021, 20, 1407-1413.	13.3	17
28	Secondary Phosphine Oxide Functionalized Gold Clusters and Their Application in Photoelectrocatalytic Hydrogenation Reactions. Journal of the American Chemical Society, 2021, 143, 9595-9600.	6.6	24
29	Coupled Organicâ€"Inorganic Nanostructures with Mixed Organic Linker Molecules. ACS Applied Materials & Interfaces, 2021, 13, 37483-37493.	4.0	1
30	Energy Level Alignment at the C₆₀/Monolayerâ€WS₂ Interface on Insulating and Conductive Substrates. Advanced Electronic Materials, 2021, 7, 2100425.	2.6	6
31	Dual Doping of MoP with M(Mn,Fe) and S to Achieve High Hydrogen Evolution Reaction Activity in Both Acidic and Alkaline Media. ChemCatChem, 2021, 13, 4392-4402.	1.8	6
32	Reversible oxygen-induced p-doping of mixed-cation halide perovskites. APL Materials, 2021, 9, 081104.	2.2	6
33	The Schottkyâ€"Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. ACS Nano, 2021, 15, 14794-14803.	7.3	25
34	Strain states and relaxation for $$alpha$$-(Al$$_x$$Ga$$_{1-x}$$)$$_2$$O$$_3$$ thin films on prismatic planes of $$alpha$$-Al$$_2$$O$$_3$$ in the full composition range: Fundamental difference of a- and m-epitaxial planes in the manifestation of shear strain and lattice tilt. Journal of Materials Research, 2021, 36, 4816-4831.	1.2	9
35	Electronic properties and degradation upon VUV irradiation of sodium chloride on Ag(111) studied by photoelectron spectroscopy. Electronic Structure, 2021, 3, 034008.	1.0	3
36	Van der Waals organic/inorganic heterostructures in the two-dimensional limit. CheM, 2021, 7, 2989-3026.	5.8	19

#	Article	IF	Citations
37	Infrared spectroscopy depth profiling of organic thin films. Materials Horizons, 2021, 8, 1461-1471.	6.4	10
38	Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable pâ€“iâ€“n perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 9347-9353.	5.2	6
39	Kinetic Study on the Adsorption of 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane on Ag Nanoparticles in Chloroform: Implications for the Charge Transfer Complex of Agâ€“F₄TCNQ. ACS Applied Nano Materials, 2021, 4, 11625-11635.	2.4	2
40	Photoinduced Energy-Level Realignment at Interfaces between Organic Semiconductors and Metal-Halide Perovskites. Physical Review Letters, 2021, 127, 246401.	2.9	11
41	Opportunities for energy level tuning at inorganic/organic semiconductor interfaces. Applied Physics Letters, 2021, 119, .	1.5	16
42	Lightâ€Induced Defect Generation in CH 3 NH 3 PbI 3 Thin Films and Single Crystals. Solar Rrl, 2020, 4, 1900216.	3.1	11
43	Direct Observation of Conductive Polymer Induced Inversion Layer in nâ€Si and Correlation to Solar Cell Performance. Advanced Functional Materials, 2020, 30, 1903440.	7.8	29
44	Operando diffuse reflectance UV-vis spectroelectrochemistry for investigating oxygen evolution electrocatalysts. Catalysis Science and Technology, 2020, 10, 517-528.	2.1	15
45	Dipolar Substitution Impacts Growth and Electronic Properties of Para â€Sexiphenyl Thin Films. Advanced Materials Interfaces, 2020, 7, 1901707.	1.9	5
46	Perfluorinated Self-Assembled Monolayers Enhance the Stability and Efficiency of Inverted Perovskite Solar Cells. ACS Nano, 2020, 14, 1445-1456.	7.3	115
47	Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. Chemistry of Materials, 2020, 32, 114-120.	3.2	8
48	Morphology-controlled MoS₂ by low-temperature atomic layer deposition. Nanoscale, 2020, 12, 20404-20412.	2.8	14
49	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2728-2736.	8.8	114
50	Thermally Activated Goldâ€Mediated Transition Metal Dichalcogenide Exfoliation and a Unique Goldâ€Mediated Transfer. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000408.	1.2	25
51	Niobiumâ€Doped Titanium Dioxide with High Dopant Contents for Enhanced Lithiumâ€Ion Storage. ChemElectroChem, 2020, 7, 4016-4023.	1.7	18
52	Conductive Polymer Work Function Changes due to Residual Water: Impact of Temperatureâ€Dependent Dielectric Constant. Advanced Electronic Materials, 2020, 6, 2000408.	2.6	12
53	Fermi level pinned molecular donor/acceptor junctions: reduction of induced carrier density by interfacial charge transfer complexes. Journal of Materials Chemistry C, 2020, 8, 15199-15207.	2.7	1
54	Energy-Level Alignment Tuning at Tetracene/c-Si Interfaces. Journal of Physical Chemistry C, 2020, 124, 27867-27881.	1.5	12

#	Article	IF	Citations
55	Substrate-Independent Energy-Level Pinning of an Organic Semiconductor Providing Versatile Hole-Injection Electrodes. ACS Applied Electronic Materials, 2020, 2, 3994-4001.	2.0	9
56	Oligothiopheneâ€Based Phosphonates for Surface Modification of Ultraflat Transparent Conductive Oxides. Advanced Materials Interfaces, 2020, 7, 1902114.	1.9	2
57	Position-locking of volatile reaction products by atmosphere and capping layers slows down photodecomposition of methylammonium lead triiodide perovskite. RSC Advances, 2020, 10, 17534-17542.	1.7	16
58	Single-Step Formation of a Low Work Function Cathode Interlayer and n-type Bulk Doping from Semiconducting Polymer/Polyethylenimine Blend Solution. ACS Applied Materials & Interfaces, 2020, 12, 28801-28807.	4.0	10
59	Large Conduction Band Energy Offset Is Critical for High Fill Factors in Inorganic Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2343-2348.	8.8	20
60	The importance of sulfonate to the self-doping mechanism of the water-soluble conjugated polyelectrolyte PCPDTBT-SO₃K. Materials Chemistry Frontiers, 2020, 4, 3556-3566.	3.2	25
61	Quantitative Analysis of Doping-Induced Polarons and Charge-Transfer Complexes of Poly(3-hexylthiophene) in Solution. Journal of Physical Chemistry B, 2020, 124, 7694-7708.	1.2	47
62	An Organic Borate Salt with Superior pâ€Doping Capability for Organic Semiconductors. Advanced Science, 2020, 7, 2001322.	5.6	32
63	The optical signatures of molecular-doping induced polarons in poly(3-hexylthiophene-2,5-diyl): individual polymer chainsversusaggregates. Journal of Materials Chemistry C, 2020, 8, 2870-2879.	2.7	32
64	Solubility limit and material properties of a Î²-(AlxGa1âˆ’x)2O3 thin film with a lateral cation gradient on (00.1)Al2O3 by tin-assisted PLD. APL Materials, 2020, 8, 021103.	2.2	26
65	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. Angewandte Chemie - International Edition, 2020, 59, 7748-7754.	7.2	47
66	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. Angewandte Chemie, 2020, 132, 7822-7828.	1.6	12
67	Modulating the luminance of organic light-emitting diodes via optical stimulation of a photochromic molecular monolayer at transparent oxide electrode. Nanoscale, 2020, 12, 5444-5451.	2.8	14
68	Simultaneous Effect of Ultraviolet Radiation and Surface Modification on the Work Function and Hole Injection Properties of ZnO Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900876.	0.8	6
69	Excited-State Charge Transfer Enabling MoS₂/Phthalocyanine Photodetectors with Extended Spectral Sensitivity. Journal of Physical Chemistry C, 2020, 124, 2837-2843.	1.5	30
70	Doping-Induced Electron Transfer at Organic/Oxide Interfaces: Direct Evidence from Infrared Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 4511-4516.	1.5	7
71	Band Offsets at Î²-([Al,In]_xGa_{1â€“x})₂O₃/MgO Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 8879-8885.	4.0	14
72	The Importance of Ligand Selection on the Formation of Metal Phosphonate-Derived CoMoP and CoMoP₂ Nanoparticles for Catalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 4147-4156.	2.4	23

#	Article	IF	Citations
73	Ordered Donorâ€“Acceptor Complex Formation and Electron Transfer in Co-deposited Films of Structurally Dissimilar Molecules. Journal of Physical Chemistry C, 2020, 124, 11023-11031.	1.5	6
74	Electrode Work Function Reduction by Polyethylenimine Interlayers: Choice of Solvent and Residual Solvent Removal for Superior Functionality. Advanced Materials Interfaces, 2020, 7, 2000291.	1.9	6
75	Sensing and structure analysis by in situ IR spectroscopy: from mL flow cells to microfluidic applications. Journal of Physics Condensed Matter, 2020, 32, 393002.	0.7	10
76	X-ray standing waves reveal lack of OH termination at hydroxylated ZnO(0001) surfaces. Physical Review Materials, 2020, 4, .	0.9	6
77	The impact of energy alignment and interfacial recombination on the internal and external open-circuit voltage of perovskite solar cells. Energy and Environmental Science, 2019, 12, 2778-2788.	15.6	570
78	Air-Stable nâ€“îâ€“p Planar Perovskite Solar Cells Using Nickel Oxide Nanocrystals as Sole Hole-Transporting Material. ACS Applied Energy Materials, 2019, 2, 4890-4899.	2.5	46
79	Growth of Nb-Doped Monolayer WS₂ by Liquid-Phase Precursor Mixing. ACS Nano, 2019, 13, 10768-10775.	7.3	102
80	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS2 and molecular dopants. Communications Physics, 2019, 2, .	2.0	38
81	Towards understanding the doping mechanism of organic semiconductors by Lewis acids. Nature Materials, 2019, 18, 1327-1334.	13.3	144
82	Dynamically Switching the Electronic and Electrostatic Properties of Indiumâ€“Tin Oxide Electrodes with Photochromic Monolayers: Toward Photoswitchable Optoelectronic Devices. ACS Applied Nano Materials, 2019, 2, 1102-1110.	2.4	20
83	Energy-level alignment at strongly coupled organicâ€“metal interfaces. Journal of Physics Condensed Matter, 2019, 31, 194002.	0.7	12
84	State-of-Matter-Dependent Charge-Transfer Interactions between Planar Molecules for Doping Applications. Chemistry of Materials, 2019, 31, 1237-1249.	3.2	32
85	Copper sulfide nanoparticles as hole-transporting-material in a fully-inorganic blocking layers n-i-p perovskite solar cells: Application and working insights. Applied Surface Science, 2019, 478, 607-614.	3.1	48
86	High open circuit voltages in pin-type perovskite solar cells through strontium addition. Sustainable Energy and Fuels, 2019, 3, 550-563.	2.5	57
87	Unraveling the Electronic Properties of Lead Halide Perovskites with Surface Photovoltage in Photoemission Studies. ACS Applied Materials & Interfaces, 2019, 11, 21578-21583.	4.0	44
88	Energy level alignment at organic/inorganic semiconductor heterojunctions: Fermi level pinning at the molecular interlayer with a reduced energy gap. Physical Chemistry Chemical Physics, 2019, 21, 15072-15079.	1.3	8
89	Impact of solvent exposure on the structure and electronic properties of CH3NH3PbI3âˆ’xClx mixed halide perovskite films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	7
90	Electronic band dispersion determination in azimuthally disordered transition-metal dichalcogenide monolayers. Communications Physics, 2019, 2, .	2.0	11

#	Article	IF	Citations
91	Alkali Salts as Interface Modifiers in nâ€iâ€p Hybrid Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900088.	3.1	47
92	Direct observation of state-filling at hybrid tin oxide/organic interfaces. Applied Physics Letters, 2019, 114, .	1.5	4
93	Directional Charge Transport in Layered Twoâ€Dimensional Triazineâ€Based Graphitic Carbon Nitride. Angewandte Chemie - International Edition, 2019, 58, 9394-9398.	7.2	60
94	Pulsed thermal deposition of binary and ternary transition metal dichalcogenide monolayers and heterostructures. Applied Physics Letters, 2019, 114, .	1.5	14
95	Modulation of the Work Function by the Atomic Structure of Strong Organic Electron Acceptors on Hâ€Si(111). Advanced Electronic Materials, 2019, 5, 1800891.	2.6	30
96	Switching the Electronic Properties of ZnO Surfaces with Negative Tâ€Type Photochromic Pyridylâ€dihydropyrene Layers and Impact of Fermi Level Pinning. Advanced Materials Interfaces, 2019, 6, 1900211.	1.9	13
97	Zn_{0.35}Co_{0.65}O â€“ A Stable and Highly Active Oxygen Evolution Catalyst Formed by Zinc Leaching and Tetrahedral Coordinated Cobalt in Wurtzite Structure. Advanced Energy Materials, 2019, 9, 1900328.	10.2	41
98	Surface Termination Dependent Work Function and Electronic Properties of Ti₃C₂T_x MXene. Chemistry of Materials, 2019, 31, 6590-6597.	3.2	359
99	A Self-Limited Atomic Layer Deposition of WS₂ Based on the Chemisorption and Reduction of Bis(t-butylimino)bis(dimethylamino) Complexes. Chemistry of Materials, 2019, 31, 1881-1890.	3.2	24
100	Predicting the yield of ion pair formation in molecular electrical doping: redox-potentials versus ionization energy/electron affinity. Journal of Materials Chemistry C, 2019, 7, 13839-13848.	2.7	20
101	Epitaxial Î²-(AlxGa1âˆ’x)2O3 thin films and heterostructures grown by tin-assisted VCCS-PLD. APL Materials, 2019, 7, .	2.2	30
102	Importance of Substrate Work Function Homogeneity for Reliable Ionization Energy Determination by Photoelectron Spectroscopy. Physica Status Solidi (B): Basic Research, 2019, 256, 1800299.	0.7	18
103	Tin-assisted heteroepitaxial PLD-growth of Î²-Ga2O3 thin films with high crystalline quality. APL Materials, 2019, 7, .	2.2	98
104	In Situ Infrared Spectroscopic Monitoring and Characterization of the Growth of Polydopamine (PDA) Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1800308.	0.7	25
105	Theory of optically induced FÃ¶rster coupling in van der Waals coupled heterostructures. Physical Review B, 2019, 99, .	1.1	20
106	Modification of TiO 2 (1â€‰1â€‰0)/organic hole transport layer interface energy levels by a dipolar perylene derivative. Electronic Structure, 2019, 1, 015007.	1.0	3
107	Electronic properties of hybrid organic/inorganic semiconductor pn-junctions. Journal of Physics Condensed Matter, 2019, 31, 064002.	0.7	16
108	Constructing the Electronic Structure of CH₃NH₃PbI₃ and CH₃NH₃PbBr₃ Perovskite Thin Films from Single-Crystal Band Structure Measurements. Journal of Physical Chemistry Letters, 2019, 10, 601-609.	2.1	78

#	Article	IF	Citations
109	Gap states induce soft Fermi level pinning upon charge transfer at ZnO/molecular acceptor interfaces. Physical Review Materials, 2019, 3, .	0.9	9
110	CdS/Low-Band-Gap Kesterite Thin-Film Solar Cell Absorber Heterojunction: Energy Level Alignment and Dominant Recombination Process. ACS Applied Energy Materials, 2018, 1, 475-482.	2.5	17
111	Electrode Work Function Engineering with Phosphonic Acid Monolayers and Molecular Acceptors: Charge Redistribution Mechanisms. Advanced Functional Materials, 2018, 28, 1704438.	7.8	25
112	Direct determination of monolayer MoS₂and WSe₂exciton binding energies on insulating and metallic substrates. 2D Materials, 2018, 5, 025003.	2.0	142
113	Polarization Resistanceâ€Free Mn₃O₄â€Based Electrocatalysts for the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 2010-2018.	1.7	13
114	Stoichiometric and Oxygen-Deficient VO₂ as Versatile Hole Injection Electrode for Organic Semiconductors. ACS Applied Materials & Interfaces, 2018, 10, 10552-10559.	4.0	13
115	Influence of Charge Transport Layers on Open-Circuit Voltage and Hysteresis in Perovskite Solar Cells. Joule, 2018, 2, 788-798.	11.7	187
116	Intercalation makes the difference with TiS2: Boosting electrocatalytic water oxidation activity through Co intercalation. Journal of Materials Research, 2018, 33, 528-537.	1.2	4
117	Experimental Investigation on Charge Transfer Between Organic Adsorbates and Solid Surfaces. , 2018, , 50-67.		1
118	Oxygen Vacancies Allow Tuning the Work Function of Vanadium Dioxide. Advanced Materials Interfaces, 2018, 5, 1801033.	1.9	20
119	Unraveling the Microstructure of Molecularly Doped Poly(3-hexylthiophene) by Thermally Induced Dedoping. Journal of Physical Chemistry C, 2018, 122, 25893-25899.	1.5	35
120	Stark effect of hybrid charge transfer states at planar ZnO/organic interfaces. Physical Review B, 2018, 98, .	1.1	12
121	Effect of Water, Oxygen, and Air Exposure on CH₃NH₃PbI_{3â€“}_xCl_x Perovskite Surface Electronic Properties. Advanced Electronic Materials, 2018, 4, 1800307.	2.6	36
122	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. Advanced Functional Materials, 2018, 28, 1800716.	7.8	26
123	Interface Engineering of Solution-Processed Hybrid Organohalide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21681-21687.	4.0	89
124	Influence of Oxygen Deficiency on the Rectifying Behavior of Transparent-Semiconducting-Oxideâ€“Metal Interfaces. Physical Review Applied, 2018, 9, .	1.5	29
125	Impact of surface states and bulk doping level on hybrid inorganic/organic semiconductor interface energy levels. Journal of Applied Physics, 2018, 123, 245501.	1.1	22
126	Subtle Fluorination of Conjugated Molecules Enables Stable Nanoscale Assemblies on Metal Surfaces. Journal of Physical Chemistry C, 2018, 122, 18902-18911.	1.5	10

#	Article	IF	Citations
127	Correlating the effective work function at buried organic/metal interfaces with organic solar cell characteristics. Journal of Materials Chemistry C, 2018, 6, 8060-8068.	2.7	10
128	A Multifunctional Interlayer for Solution Processed High Performance Indium Oxide Transistors. Scientific Reports, 2018, 8, 10946.	1.6	23
129	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. Molecular Systems Design and Engineering, 2018, 3, 741-747.	1.7	9
130	Optimization of the Activity of Ni-Based Nanostructures for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 4554-4563.	2.5	21
131	Microstructure and Elastic Constants of Transition Metal Dichalcogenide Monolayers from Friction and Shear Force Microscopy. Advanced Materials, 2018, 30, e1803748.	11.1	16
132	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. ChemPhysChem, 2017, 18, 722-727.	1.0	22
133	Investigation of MoO_x/nâ€Si strong inversion layer interfaces via dopantâ€free heterocontact. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700107.	1.2	56
134	Reduced Interfaceâ€Mediated Recombination for High Openâ€Circuit Voltages in CH₃NH₃PbI₃ Solar Cells. Advanced Materials, 2017, 29, 1700159.	11.1	210
135	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. ACS Applied Materials & Interfaces, 2017, 9, 14013-14022.	4.0	59
136	Impact of White Light Illumination on the Electronic and Chemical Structures of Mixed Halide and Single Crystal Perovskites. Advanced Optical Materials, 2017, 5, 1700139.	3.6	136
137	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. ChemPhysChem, 2017, 18, 717-717.	1.0	1
138	Correlation of annealing time with crystal structure, composition, and electronic properties of CH₃NH₃PbI_{3â^'x}Cl_x mixed-halide perovskite films. Physical Chemistry Chemical Physics, 2017, 19, 828-836.	1.3	40
139	Tuning Side Chain and Main Chain Order in a Prototypical Donorâ€"Acceptor Copolymer: Implications for Optical, Electronic, and Photovoltaic Characteristics. Advances in Polymer Science, 2017, , 243-265.	0.4	0
140	Charge Separation at Nanostructured Molecular Donorâ€"Acceptor Interfaces. Advances in Polymer Science, 2017, , 77-108.	0.4	2
141	Orientation-Dependent Work-Function Modification Using Substituted Pyrene-Based Acceptors. Journal of Physical Chemistry C, 2017, 121, 24657-24668.	1.5	39
142	Role of Hybrid Charge Transfer States in the Charge Generation at ZnMgO/P3HT Heterojunctions. Journal of Physical Chemistry C, 2017, 121, 21955-21961.	1.5	12
143	Lowâ€Cost TiS₂ as Holeâ€Transport Material for Perovskite Solar Cells. Small Methods, 2017, 1, 1700250.	4.6	47
144	Reliable Work Function Determination of Multicomponent Surfaces and Interfaces: The Role of Electrostatic Potentials in Ultraviolet Photoelectron Spectroscopy. Advanced Materials Interfaces, 2017, 4, 1700324.	1.9	61

#	Article	IF	Citations
145	Electronic Properties of a 1D Intrinsic/p-Doped Heterojunction in a 2D Transition Metal Dichalcogenide Semiconductor. ACS Nano, 2017, 11, 9128-9135.	7.3	58
146	Large guanidinium cation mixed with methylammonium in lead iodide perovskites for 19% efficient solar cells. Nature Energy, 2017, 2, 972-979.	19.8	445
147	Unraveling the Lightâ€Induced Degradation Mechanisms of CH₃NH₃PbI₃ Perovskite Films. Advanced Electronic Materials, 2017, 3, 1700158.	2.6	130
148	Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. Nature Materials, 2017, 16, 1209-1215.	13.3	139
149	Surface State Density Determines the Energy Level Alignment at Hybrid Perovskite/Electron Acceptors Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 41546-41552.	4.0	89
150	Design principles of carbazole/dibenzothiophene derivatives as host material in modern efficient organic light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 6989-6996.	2.7	24
151	Lithography-Free Miniaturization of Resistive Nonvolatile Memory Devices to the 100 nm Scale by Glancing Angle Deposition. Nano Letters, 2017, 17, 1149-1153.	4.5	11
152	Lightâ€Modulation of the Charge Injection in a Polymer Thinâ€Film Transistor by Functionalizing the Electrodes with Bistable Photochromic Selfâ€Assembled Monolayers. Advanced Materials, 2016, 28, 6606-6611.	11.1	57
153	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. Advanced Functional Materials, 2016, 26, 2493-2502.	7.8	28
154	Metal nanoparticle mediated space charge and its optical control in an organic hole-only device. Applied Physics Letters, 2016, 108, 153302.	1.5	4
155	Polarity of pulsed laser deposited ZnO nanostructures. Applied Physics Letters, 2016, 108, .	1.5	6
156	A comprehensive and unified picture of energy level alignment at interfaces with organic semiconductors. , 2016, , .		4
157	Energy level tuning at inorganic/organic semiconductor heterojunctions. , 2016, , .		0
158	All-solution-processed multilayer polymer/dendrimer light emitting diodes. Organic Electronics, 2016, 35, 164-170.	1.4	22
159	Epitaxial Growth of an Organic pâ€"n Heterojunction: C₆₀ on Single-Crystal Pentacene. ACS Applied Materials & Interfaces, 2016, 8, 13499-13505.	4.0	49
160	Dualâ€Characteristic Transistors Based on Semiconducting Polymer Blends. Advanced Electronic Materials, 2016, 2, 1600267.	2.6	20
161	Coating of Vertically Aligned Carbon Nanotubes by a Novel Manganese Oxide Atomic Layer Deposition Process for Binderâ€Free Hybrid Capacitors. Advanced Materials Interfaces, 2016, 3, 1600313.	1.9	9
162	Tuning the work function of GaN with organic molecular acceptors. Physical Review B, 2016, 93, .	1.1	40

#	Article	IF	Citations
163	Organic heterojunctions: Contact-induced molecular reorientation, interface states and charge re-distribution. Scientific Reports, 2016, 6, 21291.	1.6	35
164	Electrochemical Water Oxidation of Ultrathin Cobalt Oxide-Based Catalyst Supported onto Aligned ZnO Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 3226-3232.	4.0	39
165	Monolayer Phases of a Dipolar Perylene Derivative on Au(111) and Surface Potential Build-Up in Multilayers. Langmuir, 2016, 32, 3587-3600.	1.6	11
166	Molecular Electrical Doping of Organic Semiconductors: Fundamental Mechanisms and Emerging Dopant Design Rules. Accounts of Chemical Research, 2016, 49, 370-378.	7.6	549
167	Efficient light emission from hybrid inorganic/organic semiconductor structures by energy level optimization. Proceedings of SPIE, 2016, , .	0.8	0
168	Monolithic perovskite/silicon-heterojunction tandem solar cells processed at low temperature. Energy and Environmental Science, 2016, 9, 81-88.	15.6	536
169	Side chain engineering of poly-thiophene and its impact on crystalline silicon based hybrid solar cells. Applied Physics Letters, 2015, 107, 203301.	1.5	4
170	The Impact of Disorder on the Energy Level Alignment at Molecular Donorâ€“Acceptor Interfaces. Advanced Materials Interfaces, 2015, 2, 1500232.	1.9	31
171	Energy-Level Engineering at ZnO/Oligophenylene Interfaces with Phosphonate-Based Self-Assembled Monolayers. ACS Applied Materials & Interfaces, 2015, 7, 11900-11907.	4.0	33
172	Probing the energy levels in hole-doped molecular semiconductors. Materials Horizons, 2015, 2, 427-433.	6.4	75
173	Potassium Postdeposition Treatment-Induced Band Gap Widening at Cu(In,Ga)Se₂ Surfaces â€“ Reason for Performance Leap?. ACS Applied Materials & Interfaces, 2015, 7, 27414-27420.	4.0	147
174	Energy-level alignment at organic heterointerfaces. Science Advances, 2015, 1, e1501127.	4.7	103
175	The Effect of Gradual Fluorination on the Properties of F_nZnPc Thin Films and F_nZnPc/C₆₀ Bilayer Photovoltaic Cells. Advanced Functional Materials, 2015, 25, 1565-1573.	7.8	35
176	Charge Transfer Absorption and Emission at ZnO/Organic Interfaces. Journal of Physical Chemistry Letters, 2015, 6, 500-504.	2.1	37
177	Charge transfer in and conductivity of molecularly doped thiopheneâ€based copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 58-63.	2.4	43
178	Organic Semiconductor/Gold Interface Interactions: From Physisorption on Planar Surfaces to Chemical Reactions with Metal Nanoparticles. ChemPhysChem, 2015, 16, 2602-2608.	1.0	8
179	Tuning the Magnetic Properties of Carbon by Nitrogen Doping of Its Graphene Domains. Journal of the American Chemical Society, 2015, 137, 7678-7685.	6.6	82
180	Efficient light emission from inorganic and organic semiconductor hybrid structures by energy-level tuning. Nature Communications, 2015, 6, 6754.	5.8	99

#	Article	IF	Citations
181	The Relationship between Structural and Electrical Characteristics in Perylenecarboxydiimideâ€Based Nanoarchitectures. Advanced Functional Materials, 2015, 25, 2501-2510.	7.8	25
182	Interface Dipole and Growth Mode of Partially and Fully Fluorinated Rubrene on Au(111) and Ag(111). Journal of Physical Chemistry C, 2015, 119, 6769-6776.	1.5	13
183	The interface electronic properties of organic photovoltaic cells. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 177-185.	0.8	15
184	In-situ tuning threshold voltage of field-effect transistors based on blends of poly(3-hexylthiophene) with an insulator electret. Applied Physics Letters, 2015, 107, .	1.5	24
185	Effect of molecular electrical doping on polyfuran based photovoltaic cells. Applied Physics Letters, 2015, 106, .	1.5	19
186	Charge-transfer crystallites as molecular electrical dopants. Nature Communications, 2015, 6, 8560.	5.8	317
187	Tuning the Electronic Structure of Graphene by Molecular Dopants: Impact of the Substrate. ACS Applied Materials & Interfaces, 2015, 7, 19134-19144.	4.0	34
188	Cascade energy transfer versus charge separation in ladder-type oligo(p-phenylene)/ZnO hybrid structures for light-emitting applications. Applied Physics Letters, 2014, 105, .	1.5	13
189	Fermi level pinning induced electrostatic fields and band bending at organic heterojunctions. Applied Physics Letters, 2014, 105, .	1.5	40
190	Seleno groups control the energy-level alignment between conjugated organic molecules and metals. Journal of Chemical Physics, 2014, 140, 014705.	1.2	11
191	Work function increase of transparent conductive electrodes by solution processed electron acceptor molecular monolayers. Applied Physics A: Materials Science and Processing, 2014, 114, 291-295.	1.1	11
192	Synergic Exfoliation of Graphene with Organic Molecules and Inorganic Ions for the Electrochemical Production of Flexible Electrodes. ChemPlusChem, 2014, 79, 439-446.	1.3	60
193	Bandâ€Bending in Organic Semiconductors: the Role of Alkaliâ€Halide Interlayers. Advanced Materials, 2014, 26, 925-930.	11.1	85
194	Chemical Vapor Deposition of N-Doped Graphene and Carbon Films: The Role of Precursors and Gas Phase. ACS Nano, 2014, 8, 3337-3346.	7.3	133
195	V_{oc} from a Morphology Point of View: the Influence of Molecular Orientation on the Open Circuit Voltage of Organic Planar Heterojunction Solar Cells. Journal of Physical Chemistry C, 2014, 118, 26462-26470.	1.5	78
196	Tuning the Work Function of Graphene-on-Quartz with a High Weight Molecular Acceptor. Journal of Physical Chemistry C, 2014, 118, 4784-4790.	1.5	50
197	Surface Modification of ZnO(0001)â€“Zn with Phosphonate-Based Self-Assembled Monolayers: Binding Modes, Orientation, and Work Function. Chemistry of Materials, 2014, 26, 5042-5050.	3.2	66
198	Performance enhancement of diindenoperylene-based organic photovoltaic cells by nanocolumn-arrays. Organic Electronics, 2014, 15, 2210-2217.	1.4	9

#	Article	IF	Citations
199	Harnessing the Liquidâ€Phase Exfoliation of Graphene Using Aliphatic Compounds: A Supramolecular Approach. Angewandte Chemie - International Edition, 2014, 53, 10355-10361.	7.2	92
200	Charging and exciton-mediated decharging of metal nanoparticles in organic semiconductor matrices. Applied Physics Letters, 2014, 104, 163302.	1.5	5
201	Impact of Molecular Dipole Moments on Fermi Level Pinning in Thin Films. Journal of Physical Chemistry C, 2014, 118, 11731-11737.	1.5	14
202	Organic semiconductor density of states controls the energy level alignment at electrode interfaces. Nature Communications, 2014, 5, 4174.	5.8	322
203	Role of charge transfer, dipole-dipole interactions, and electrostatics in Fermi-level pinning at a molecular heterojunction on a metal surface. Physical Review B, 2013, 87, .	1.1	70
204	Electronic structure of CoPc adsorbed on Ag(100): Evidence for molecule-substrate interaction mediated by Co 3<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>orbitals. Physical Review B, 2013, 87, .	1.1	54
205	Photoinduced reversible changes in the electronic structure of photochromic diarylethene films. Applied Physics A: Materials Science and Processing, 2013, 113, 1-4.	1.1	32
206	Energy level alignment at interfaces in organic photovoltaic devices. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 12-24.	0.8	27
207	Polarity driven morphology of zinc oxide nanostructures. Applied Physics Letters, 2013, 103, .	1.5	12
208	Pentacene on Ag(111): Correlation of Bonding Distance with Intermolecular Interaction and Order. ACS Applied Materials & Interfaces, 2013, 5, 9377-9381.	4.0	25
209	All solution processed blue multi-layer light emitting diodes realized by thermal layer stabilization and orthogonal solvent processing. Proceedings of SPIE, 2013, , .	0.8	0
210	Charged and metallic molecular monolayers through surface-induced aromatic stabilization. Nature Chemistry, 2013, 5, 187-194.	6.6	187
211	Nanoscale Si template for the growth of self-organized one-dimensional nanostructures. Applied Surface Science, 2013, 267, 192-195.	3.1	6
212	Valence band structure of rubrene single crystals in contact with an organic gate dielectric. Organic Electronics, 2013, 14, 1825-1832.	1.4	22
213	Moderate doping leads to high performance of semiconductor/insulator polymer blend transistors. Nature Communications, 2013, 4, 1588.	5.8	240
214	Origin of mechanical strain sensitivity of pentacene thin-film transistors. Organic Electronics, 2013, 14, 1323-1329.	1.4	32
215	Fundamental Electronic Structure of Organic Solids and Their Interfaces by Photoemission Spectroscopy and Related Methods. , 2013, , 173-217.		2
216	NEXAFS Studies of Molecular Orientations at Molecule-Substrate Interfaces. , 2013, , 119-151.		3

#	Article	IF	Citations
217	X-Ray Standing Waves and Surfaces X-Ray Scattering Studies of Molecule-Metal Interfaces. , 2013, , 153-172.		9
218	A heterotriangulene polymer for air-stable organic field-effect transistors. Polymer Chemistry, 2013, 4, 5337.	1.9	25
219	Role of the effective mass and interfacial dipoles on exciton dissociation in organic donor-acceptor solar cells. Physical Review B, 2013, 87, .	1.1	79
220	The Impact of Local Work Function Variations on Fermi Level Pinning of Organic Semiconductors. Journal of Physical Chemistry C, 2013, 117, 22285-22289.	1.5	39
221	Controlling the work function of ZnO and the energy-level alignment at the interface to organic semiconductors with a molecular electron acceptor. Physical Review B, 2013, 87, .	1.1	109
222	Doping of Organic Semiconductors: Impact of Dopant Strength and Electronic Coupling. Angewandte Chemie - International Edition, 2013, 52, 7751-7755.	7.2	186
223	Highly Efficient Colorâ€Stable Deepâ€Blue Multilayer PLEDs: Preventing PEDOT:PSSâ€Induced Interface Degradation. Advanced Materials, 2013, 25, 4420-4424.	11.1	43
224	Influence of Merocyanine Molecular Dipole Moments on the Valence Levels in Thin Films and the Interface Energy Level Alignment with Au(111). Journal of Physical Chemistry C, 2013, 117, 19031-19037.	1.5	9
225	Bright Blue Solution Processed Tripleâ€Layer Polymer Lightâ€Emitting Diodes Realized by Thermal Layer Stabilization and Orthogonal Solvents. Advanced Functional Materials, 2013, 23, 4897-4905.	7.8	50
226	Space-Charge Transfer in Hybrid Inorganic-Organic Systems. Physical Review Letters, 2013, 111, 226802.	2.9	68
227	Interface Properties of Organic para-Hexaphenyl/Î±-Sexithiophene Heterostructures Deposited on Highly Oriented Pyrolytic Graphite. Langmuir, 2013, 29, 14444-14450.	1.6	8
228	Interpretation of valence band photoemission spectra at organic-metal interfaces. Physical Review B, 2013, 87, .	1.1	30
229	Exploring the bonding of large hydrocarbons on noble metals: Diindoperylene on Cu(111), Ag(111), and Au(111). Physical Review B, 2013, 87, .	1.1	49
230	White fluorescent nano-fibers prepared by periodic organic hetero-epitaxy. Proceedings of SPIE, 2013, , .	0.8	1
231	Correlation between interface energetics and open circuit voltage in organic photovoltaic cells. Applied Physics Letters, 2012, 101, 233301.	1.5	88
232	On the fundamental processes in molecular electrical doping of organic semiconductors. AIP Conference Proceedings, 2012, , .	0.3	11
233	Intermolecular Hybridization Governs Molecular Electrical Doping. Physical Review Letters, 2012, 108, 035502.	2.9	178
234	Energy level pinning of an n-type semiconducting polymer on conductive polymer electrodes: Effects of work function and annealing. Journal of Applied Physics, 2012, 112, 033712.	1.1	9

#	Article	IF	Citations
235	Doping of C60(sub)monolayers by Fermi-level pinning induced electron transfer. Physical Review B, 2012, 86, .	1.1	43
236	In-Situ Monitoring the Growth of Polypyrrole Films at Liquid/Solid Interface Using a Combination of Polarized Infrared Spectroscopy and Reflectance Anisotropy Spectroscopy. Journal of the Electrochemical Society, 2012, 159, H811-H815.	1.3	8
237	Crystallisation kinetics in thin films of dihexyl-terthiophene: the appearance of polymorphic phases. RSC Advances, 2012, 2, 4404.	1.7	64
238	Full electronic structure across a polymer heterojunction solar cell. Journal of Materials Chemistry, 2012, 22, 4418.	6.7	33
239	Fluorinated Copolymer PCPDTBT with Enhanced Open-Circuit Voltage and Reduced Recombination for Highly Efficient Polymer Solar Cells. Journal of the American Chemical Society, 2012, 134, 14932-14944.	6.6	361
240	Impact of Fluorination on Initial Growth and Stability of Pentacene on Cu(111). Journal of Physical Chemistry C, 2012, 116, 7726-7734.	1.5	29
241	Color Tuning of Nanofibers by Periodic Organicâ€"Organic Hetero-Epitaxy. ACS Nano, 2012, 6, 4629-4638.	7.3	35
242	Identification of different origins for s-shaped current voltage characteristics in planar heterojunction organic solar cells. Journal of Applied Physics, 2012, 111, .	1.1	86
243	Epitaxial Growth of Ï€-Stacked Perfluoropentacene on Graphene-Coated Quartz. ACS Nano, 2012, 6, 10874-10883.	7.3	108
244	Electronic structure of interfaces with conjugated organic materials. Physica Status Solidi - Rapid Research Letters, 2012, 6, 277-293.	1.2	59
245	Influence of Aggregation on the Performance of Allâ€Polymer Solar Cells Containing Lowâ€Bandgap Naphthalenediimide Copolymers. Advanced Energy Materials, 2012, 2, 369-380.	10.2	316
246	Optically switchable transistor via energy-level phototuning in a bicomponent organic semiconductor. Nature Chemistry, 2012, 4, 675-679.	6.6	217
247	Two dimensional band structure mapping of organic single crystals using the new generation electron energy analyzer ARTOF. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 55-60.	0.8	49
248	Formation of intra-island grain boundaries in pentacene monolayers. Physical Chemistry Chemical Physics, 2011, 13, 21102.	1.3	6
249	Core, Shell, and Surface-Optimized Dendrimers for Blue Light-Emitting Diodes. Journal of the American Chemical Society, 2011, 133, 1301-1303.	6.6	111
250	Metal-to-Acceptor Charge Transfer through a Molecular Spacer Layer. Journal of Physical Chemistry C, 2011, 115, 17503-17507.	1.5	22
251	Modulation of Surface Charge Transfer through Competing Long-Range Repulsive versus Short-Range Attractive Interactions. Journal of Physical Chemistry C, 2011, 115, 18640-18648.	1.5	49
252	Structure Solution of the 6,13-Pentacenequinone Surface-Induced Polymorph by Combining X-ray Diffraction Reciprocal-Space Mapping and Theoretical Structure Modeling. Crystal Growth and Design, 2011, 11, 600-606.	1.4	44

#	Article	IF	Citations
253	Band Bending in Conjugated Polymer Layers. Physical Review Letters, 2011, 106, 216402.	2.9	188
254	Tuning hole-injection barriers at organic/metal interfaces exploiting the orientation of a molecular acceptor interlayer. Physical Review B, 2011, 84, .	1.1	43
255	Interlayer molecular diffusion and thermodynamic equilibrium in organic heterostructures on a metal electrode. Journal of Applied Physics, 2011, 110, .	1.1	22
256	Focus Issue: Organic light-emitting diodesâ€"status quo and current developments. Optics Express, 2011, 19, A1237.	1.7	1
257	Deep blue polymer light emitting diodes based on easy to synthesize, non-aggregating polypyrene. Optics Express, 2011, 19, A1281.	1.7	23
258	Design of Organic Semiconductors from Molecular Electrostaticsâ€. Chemistry of Materials, 2011, 23, 359-377.	3.2	193
259	Interrelation between Substrate Roughness and Thin-Film Structure of Functionalized Acenes on Graphite. Crystal Growth and Design, 2011, 11, 4996-5001.	1.4	28
260	Substrate- and oxidation-induced roughness of individual terraces of pentacene thin films. Thin Solid Films, 2011, 519, 1857-1860.	0.8	2
261	Organic photovoltaic cells with interdigitated structures based on pentacene nanocolumn arrays. Organic Electronics, 2011, 12, 2180-2184.	1.4	12
262	Infrared spectroscopic ellipsometry (IRSE) and Xâ€ray photoelectron spectroscopy (XPS) monitoring the preparation of maleimideâ€functionalized surfaces: from Au towards Si (111). Surface and Interface Analysis, 2011, 43, 1203-1210.	0.8	16
263	Electronic Properties of Interfaces between PCPDTBT and Prototypical Electrodes Studied by Photoemission Spectroscopy. ChemPhysChem, 2011, 12, 2345-2351.	1.0	18
264	Ultrathin polythiophene films on an intrinsically conducting polymer electrode: Charge transfer induced valence states and interface dipoles. Organic Electronics, 2011, 12, 916-922.	1.4	33
265	Impact of alkyl side chains at self-assembly, electronic structure and charge arrangement in sexithiophene thin films. Organic Electronics, 2011, 12, 903-910.	1.4	18
266	Electric fields induced by energy level pinning at organic heterojunctions. Applied Physics Letters, 2011, 98, 123304.	1.5	31
267	Final-state diffraction effects in angle-resolved photoemission at an organic-metal interface. Physical Review B, 2011, 84, .	1.1	16
268	Band-offset engineering at organic/inorganic semiconductor heterointerfaces. , 2011, , .		0
269	Electronic Properties of Cu-Phthalocyanine/Fullerene Planar and Bulk Hetereojunctions on PEDOT:PSS. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1732-1737.	1.9	24
270	Charge Separation at Molecular Donorâ€"Acceptor Interfaces: Correlation Between Morphology and Solar Cell Performance. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1707-1717.	1.9	53

#	Article	IF	Citations
271	High Fill Factor and Open Circuit Voltage in Organic Photovoltaic Cells with Diindenoperylene as Donor Material. Advanced Functional Materials, 2010, 20, 4295-4303.	7.8	175
272	Correlating photocurrent spectra and electrical transport parameters in organic field effect transistors. Organic Electronics, 2010, 11, 273-278.	1.4	7
273	Influence of intramolecular polar bonds on interface energetics in perfluoro-pentacene on Ag(111). Physical Review B, 2010, 81, .	1.1	65
274	Site-Specific Geometric and Electronic Relaxations at Organic-Metal Interfaces. Physical Review Letters, 2010, 105, 046103.	2.9	48
275	Electronic Properties of Organic-Based Interfaces. MRS Bulletin, 2010, 35, 417-421.	1.7	45
276	Density-Dependent Reorientation and Rehybridization of Chemisorbed Conjugated Molecules for Controlling Interface Electronic Structure. Physical Review Letters, 2010, 104, 246805.	2.9	55
277	Phase-separation and mixing in thin films of co-deposited rod-like conjugated molecules. Journal of Materials Chemistry, 2010, 20, 4055.	6.7	31
278	Band-offset engineering in organic/inorganic semiconductor hybrid structures. Physical Chemistry Chemical Physics, 2010, 12, 11642.	1.3	57
279	Electronic structure of large disc-type donors and acceptors. Physical Chemistry Chemical Physics, 2010, 12, 7184.	1.3	17
280	Charge-Transfer Localization in Molecularly Doped Thiophene-Based Donor Polymers. Journal of Physical Chemistry Letters, 2010, 1, 2037-2041.	2.1	91
281	Layer Growth, Thermal Stability, and Desorption Behavior of Hexaaza-triphenylene-hexacarbonitrile on Ag(111). Journal of Physical Chemistry C, 2010, 114, 6650-6657.	1.5	27
282	Controlling energy level offsets in organic/organic heterostructures using intramolecular polar bonds. Applied Physics Letters, 2009, 94, .	1.5	57
283	F4TCNQ on Cu, Ag, and Au as prototypical example for a strong organic acceptor on coinage metals. Physical Review B, 2009, 79, .	1.1	116
284	Interdiffusion of molecular acceptors through organic layers to metal substrates mimics doping-related energy level shifts. Applied Physics Letters, 2009, 95, 093305.	1.5	45
285	The morphology of organic nanocolumn arrays: Amorphous versus crystalline solids. Journal of Materials Research, 2009, 24, 1492-1497.	1.2	6
286	Controlling Electron and Hole Charge Injection in Ambipolar Organic Fieldâ€Effect Transistors by Selfâ€Assembled Monolayers. Advanced Functional Materials, 2009, 19, 2407-2415.	7.8	209
287	Intrinsic Surface Dipoles Control the Energy Levels of Conjugated Polymers. Advanced Functional Materials, 2009, 19, 3874-3879.	7.8	64
288	Continuous Tuning of Organic Transistor Operation from Enhancement to Depletion Mode. Advanced Materials, 2009, 21, 344-348.	11.1	30

#	Article	IF	Citations
289	A High Molecular Weight Donor for Electron Injection Interlayers on Metal Electrodes. ChemPhysChem, 2009, 10, 2947-2954.	1.0	16
290	Electronic and structural properties of graphene-based transparent and conductive thin film electrodes. Applied Physics A: Materials Science and Processing, 2009, 94, 1-4.	1.1	48
291	Key role of molecular kinetic energy inÂearlyÂstages ofÂpentacene island growth. Applied Physics A: Materials Science and Processing, 2009, 95, 21-27.	1.1	24
292	Structural and electronic implications for carrier injection intoÂorganic semiconductors. Applied Physics A: Materials Science and Processing, 2009, 97, 1-9.	1.1	12
293	Solution-based metal electrode modification for improved charge injection in polymer field-effect transistors. Organic Electronics, 2009, 10, 1459-1465.	1.4	20
294	Electronic non-equilibrium conditions at C60â€“pentacene heterostructures. Journal of Electron Spectroscopy and Related Phenomena, 2009, 174, 40-44.	0.8	13
295	Layer growth and desorption kinetics of a discoid molecular acceptor on Au(111). Chemical Physics Letters, 2009, 473, 321-325.	1.2	29
296	Transparent, highly conductive graphene electrodes from acetylene-assisted thermolysis of graphite oxide sheets and nanographene molecules. Nanotechnology, 2009, 20, 434007.	1.3	103
297	Molecular Orientation Dependence of the Ionization Energy of Pentacene in Thin Films. Springer Proceedings in Physics, 2009, , 141-145.	0.1	5
298	Data scattering in scanning tunneling spectroscopy. Ultramicroscopy, 2008, 109, 85-90.	0.8	2
299	Grainâ€Boundary Evolution in a Pentacene Monolayer. Advanced Materials, 2008, 20, 3254-3257.	11.1	45
300	PTCDA on Au(111), Ag(111) and Cu(111): Correlation of interface charge transfer to bonding distance. Organic Electronics, 2008, 9, 111-118.	1.4	220
301	Ambipolar transport in transparent and flexible all-organic heterojunction field effect transistors at ambient conditions. Organic Electronics, 2008, 9, 191-197.	1.4	35
302	Orientation-dependent ionization energies and interface dipoles in ordered molecular assemblies. Nature Materials, 2008, 7, 326-332.	13.3	564
303	Energy levels at interfaces between metals and conjugated organic molecules. Journal of Physics Condensed Matter, 2008, 20, 184008.	0.7	145
304	Electronic coupling in organic-inorganic semiconductor hybrid structures with type-II energy level alignment. Physical Review B, 2008, 77, .	1.1	28
305	Investigating Molecular Charge Transfer Complexes with a Low Temperature Scanning Tunneling Microscope. Physical Review Letters, 2008, 100, 126102.	2.9	73
306	Hexa-peri-hexabenzocoronene on Ag(111):â€‰ Monolayer/Multilayer Transition of Molecular Orientation and Electronic Structure. Journal of Physical Chemistry C, 2008, 112, 1570-1574.	1.5	18

#	Article	IF	Citations
307	Adsorption-Induced Intramolecular Dipole: Correlating Molecular Conformation and Interface Electronic Structure. Journal of the American Chemical Society, 2008, 130, 7300-7304.	6.6	152
308	Structural Order in Perfluoropentacene Thin Films and Heterostructures with Pentacene. Langmuir, 2008, 24, 7294-7298.	1.6	85
309	â€œSoftâ€•Metallic Contact to Isolated C₆₀ Molecules. Nano Letters, 2008, 8, 3825-3829.	4.5	50
310	The role of poly(3,4-ethylenedioxythiophene):poly(styrenesulphonate) as a hole injection layer in a blue-emitting polymer light-emitting diode. Journal of Applied Physics, 2008, 104, .	1.1	29
311	Tuning the Ionization Energy of Organic Semiconductor Films: The Role of Intramolecular Polar Bonds. Journal of the American Chemical Society, 2008, 130, 12870-12871.	6.6	152
312	Interface formation and electronic structure of Î±-sexithiophene on ZnO. Applied Physics Letters, 2008, 92, .	1.5	32
313	Structural and electronic properties of pentacene-fullerene heterojunctions. Journal of Applied Physics, 2008, 104, .	1.1	97
314	Gold work function reduction by 2.2eV with an air-stable molecular donor layer. Applied Physics Letters, 2008, 93, .	1.5	75
315	Vacuum sublimed Î±,Ï‰-dihexylsexithiophene thin films: Correlating electronic structure and molecular orientation. Journal of Applied Physics, 2008, 104, 033717.	1.1	19
316	Flexible Accumulation And Depletion Mode Organic Field Effect Transistors With Tunable Threshold Voltage. , 2008, , .		0
317	ALL-ORGANIC FLEXIBLE AND TRANSARENT AMBIPOLAR FETs WITH ORGANIC BULK HETEROJUNCTIONS. Materials Research Society Symposia Proceedings, 2007, 1029, 1.	0.1	0
318	Substrate-dependent bonding distances of PTCDA: A comparative x-ray standing-wave study on Cu(111) and Ag(111). Physical Review B, 2007, 75, .	1.1	99
319	Arrays of crystalline C60 and pentacene nanocolumns. Applied Physics Letters, 2007, 90, 193117.	1.5	23
320	Energy level alignment of electrically doped hole transport layers with transparent and conductive indium tin oxide and polymer anodes. Journal of Applied Physics, 2007, 102, 073719.	1.1	20
321	Comment on â€œElectron Core-Hole Interaction and Its Induced Ionic Structural Relaxation in Molecular Systems under X-Ray Irradiationâ€• Physical Review Letters, 2007, 99, 059601; discussion 059602.	2.9	4
322	Controlling the Early Stages of Pentacene Growth by Supersonic Molecular Beam Deposition. Physical Review Letters, 2007, 98, 076601.	2.9	75
323	Phase separation in vacuum codeposited pentacene/6,13-pentacenequinone thin films. Physical Review B, 2007, 75, .	1.1	34
324	Molecular chains and carpets of sexithiophenes onAu(111). Physical Review B, 2007, 76, .	1.1	48

#	Article	IF	Citations
325	Internal Structure of Nanoporous TiO2/Polyion Thin Films Prepared by Layer-by-Layer Deposition. Langmuir, 2007, 23, 9860-9865.	1.6	20
326	Impact of Bidirectional Charge Transfer and Molecular Distortions on the Electronic Structure of a Metal-Organic Interface. Physical Review Letters, 2007, 99, 256801.	2.9	206
327	Influence of water on the work function of conducting poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate). Applied Physics Letters, 2007, 90, 043512.	1.5	115
328	Impact of low 6,13-pentacenequinone concentration on pentacene thin film growth. Applied Physics Letters, 2007, 91, 051919.	1.5	33
329	Spontaneous charge transfer at organic-organic homointerfaces to establish thermodynamic equilibrium. Applied Physics Letters, 2007, 90, 122113.	1.5	24
330	Sub-nanometer Control of the Interlayer Spacing in Thin Films of Intercalated Rodlike Conjugated Molecules. Journal of Physical Chemistry B, 2007, 111, 14097-14101.	1.2	21
331	Improving the Stability of Polymer FETs by Introducing Fixed Acceptor Units into the Main Chain:Â Application to Poly(alkylthiophenes). Chemistry of Materials, 2007, 19, 1472-1481.	3.2	21
332	Ordersâ€•ofâ€•Magnitude Reduction of the Contact Resistance in Shortâ€•Channel Hot Embossed Organic Thin Film Transistors by Oxidative Treatment of Auâ€•Electrodes. Advanced Functional Materials, 2007, 17, 2687-2692.	7.8	117
333	Hybrid Supramolecular Naphthalene Diimideâ€•thiophene Structures and their Application in Polymer Electronics. Advanced Functional Materials, 2007, 17, 3715-3723.	7.8	46
334	The Effect of Fluorination on Pentacene/Gold Interface Energetics and Charge Reorganization Energy. Advanced Materials, 2007, 19, 112-116.	11.1	139
335	Localized Charge Transfer in a Molecularly Doped Conducting Polymer. Advanced Materials, 2007, 19, 3257-3260.	11.1	152
336	Organic Electronic Devices and Their Functional Interfaces. ChemPhysChem, 2007, 8, 1438-1455.	1.0	724
337	Energy level alignment and morphology of interfaces between molecular and polymeric organic semiconductors. Organic Electronics, 2007, 8, 606-614.	1.4	110
338	Green polyfluorene-conducting polymer interfaces: Energy level alignment and device performance. Journal of Applied Physics, 2006, 100, 024512.	1.1	27
339	Weak Charge Transfer between an Acceptor Molecule and Metal Surfaces Enabling Organic/Metal Energy Level Tuning. Journal of Physical Chemistry B, 2006, 110, 21069-21072.	1.2	35
340	Evidence for Temperature-Dependent Electron Band Dispersion in Pentacene. Physical Review Letters, 2006, 96, 156803.	2.9	197
341	Electrode-molecular semiconductor contacts: Work-function-dependent hole injection barriers versus Fermi-level pinning. Applied Physics Letters, 2006, 89, 162107.	1.5	94
342	UVâˆ•ozone treated Au for air-stable, low hole injection barrier electrodes in organic electronics. Journal of Applied Physics, 2006, 100, 053701.	1.1	99

#	Article	IF	Citations
343	Enhanced hole injection in a polymer light emitting diode using a small molecule monolayer bound to the anode. Chemical Physics Letters, 2006, 426, 370-373.	1.2	26
344	Molecular orientation dependent energy levels at interfaces with pentacene and pentacenequinone. Organic Electronics, 2006, 7, 537-545.	1.4	81
345	The interaction of oxygen and ozone with pentacene. Surface Science, 2006, 600, 4004-4007.	0.8	41
346	Influence of alkyl chain substitution on sexithienyl-metal interface morphology and energetics. Applied Physics Letters, 2006, 88, 203109.	1.5	24
347	Morphology, interfacial electronic structure, and optical properties of oligothiophenes grown onZnSe(100)by molecular beam deposition. Physical Review B, 2006, 73, .	1.1	9
348	Observation of filled states at the Fermi-level in alkali-metal intercalated organic films: dependence on substrate work function. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 495-498.	0.8	5
349	Structural study of thin films of neutral and potassium-doped oligophenylenes on Cu(100). Surface Science, 2005, 589, 19-31.	0.8	4
350	Influence of molecular conformation on organic/metal interface energetics. Chemical Physics Letters, 2005, 413, 390-395.	1.2	72
351	Energy level alignment at interfaces with pentacene: metals versus conducting polymers. Applied Surface Science, 2005, 244, 593-597.	3.1	27
352	The effect of oxygen exposure on pentacene electronic structure. European Physical Journal E, 2005, 17, 339-343.	0.7	98
353	Work Function Independent Hole-Injection Barriers Between Pentacene and Conducting Polymers. Advanced Materials, 2005, 17, 330-335.	11.1	116
354	Tuning the hole injection barrier height at organic/metal interfaces with (sub-) monolayers of electron acceptor molecules. Applied Physics Letters, 2005, 87, 101905.	1.5	52
355	Anisotropy in ordered sexithiophene thin films studied by angle-resolved photoemission using combined laser and synchrotron radiation. Applied Physics Letters, 2005, 87, 093501.	1.5	31
356	The Effect of Oxygen Exposure on Pentacene Thin Film Electronic Structure. Materials Research Society Symposia Proceedings, 2005, 871, 1.	0.1	0
357	Systematic Modification of Indium Tin Oxide to Enhance Diode Device Behavior. Materials Research Society Symposia Proceedings, 2005, 871, 1.	0.1	1
358	Advanced Surface Modification of Indium Tin Oxide for Improved Charge Injection in Organic Devices. Journal of the American Chemical Society, 2005, 127, 10058-10062.	6.6	179
359	Direct Measurement of Surface Complex Loading and Surface Dipole and Their Effect on Simple Device Behavior. Journal of Physical Chemistry B, 2005, 109, 3966-3970.	1.2	22
360	Optimized Hole Injection with Strong Electron Acceptors at Organic-Metal Interfaces. Physical Review Letters, 2005, 95, 237601.	2.9	248

#	Article	IF	Citations
361	Dislocation arrangements in pentacene thin films. Physical Review B, 2004, 70, .	1.1	84
362	VUV photoemission using synchrotron light: a tool for characterising surfaces and interfaces occurring in OLEDs. Journal of Alloys and Compounds, 2004, 382, 179-186.	2.8	10
363	Optically induced electron transfer from conjugated organic molecules to charged metal clusters. Thin Solid Films, 2003, 441, 145-149.	0.8	29
364	Electronic structure and electrical properties of interfaces between metals and ?-conjugated molecular films. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2529-2548.	2.4	771
365	Photoemission from Azobenzene Alkanethiol Self-Assembled Monolayers. Journal of Physical Chemistry B, 2003, 107, 7768-7775.	1.2	34
366	Bonding Self-Assembled, Compact Organophosphonate Monolayers to the Native Oxide Surface of Silicon. Journal of the American Chemical Society, 2003, 125, 16074-16080.	6.6	310
367	Controlling the work function of indium tin oxide: differentiating dipolar from local surface effects. Synthetic Metals, 2003, 138, 223-227.	2.1	23
368	Conjugated organic molecules on metal versus polymer electrodes: Demonstration of a key energy level alignment mechanism. Applied Physics Letters, 2003, 82, 70-72.	1.5	481
369	Dynamic Scaling, Island Size Distribution, and Morphology in the Aggregation Regime of Submonolayer Pentacene Films. Physical Review Letters, 2003, 91, 136102.	2.9	172
370	Interplay between morphology, structure, and electronic properties at diindenoperylene-gold interfaces. Physical Review B, 2003, 68, .	1.1	116
371	Pentacene ultrathin film formation on reduced and oxidized Si surfaces. Physical Review B, 2003, 67, .	1.1	204
372	Organic molecular films on gold versus conducting polymer: Influence of injection barrier height and morphology on currentâ€“voltage characteristics. Applied Physics Letters, 2003, 82, 2281-2283.	1.5	96
373	Lack of thermodynamic equilibrium in conjugated organic molecular thin films. Physical Review B, 2003, 67, .	1.1	29
374	Metal vs. Polymer Electrodes in Organic Devices: Energy Level Alignment, Hole Injection, and Structure. Materials Research Society Symposia Proceedings, 2003, 771, 361.	0.1	4
375	Controlling the Work Function of Indium Tin Oxide:â€‰ Differentiating Dipolar from Local Surface Effects. Journal of the American Chemical Society, 2002, 124, 3192-3193.	6.6	79
376	Physisorption-like Interaction at the Interfaces Formed by Pentacene and Samarium. Journal of Physical Chemistry B, 2002, 106, 4192-4196.	1.2	60
377	Combined XPS, AFM, TEM and ellipsometric studies on nanoscale layers in organic light emitting diodes. Surface Science, 2002, 507-510, 473-479.	0.8	13
378	Self-Assembly and Bonding of Alkanephosphonic Acids on the Native Oxide Surface of Titanium. Langmuir, 2001, 17, 5736-5738.	1.6	266

#	Article	IF	Citations
379	Interaction and Energy Level Alignment at Interfaces between Pentacene and Low Work Function Metals. Materials Research Society Symposia Proceedings, 2001, 708, 241.	0.1	2
380	Growth and Morphology of Pentacene Films on Oxide Surfaces. Materials Research Society Symposia Proceedings, 2001, 708, 10541.	0.1	0
381	Combined photoelectron and metastable atom electron spectroscopy study of n-doped oligophenylene thin films. Applied Surface Science, 2001, 175-176, 764-768.	3.1	13
382	Radiation induced degradation and surface charging of organic thin films in ultraviolet photoemission spectroscopy. Thin Solid Films, 2001, 391, 81-87.	0.8	46
383	Electronic Properties of the Interfaces Between the Wide Bandgap Organic SemiconductorPara-Sexiphenyl and Samarium. Advanced Functional Materials, 2001, 11, 51-58.	7.8	39
384	A Polymorph Crystal Structure of Hexaphenyl Observed in Thin Films. Crystal Research and Technology, 2001, 36, 47-54.	0.6	36
385	Electronic Properties of the Interfaces Between the Wide Bandgap Organic Semiconductor Para-Sexiphenyl and Samarium. Advanced Functional Materials, 2001, 11, 51-58.	7.8	3
386	Organic-Metal Interfaces. , 2001, , .		2
387	Structure, morphology, and optical properties of highly ordered films ofpara-sexiphenyl. Physical Review B, 2000, 61, 16538-16549.	1.1	77
388	Photoemission spectroscopic investigation on the interface formation of a ladder-type poly(para-phenylene) with aluminum. Applied Physics Letters, 2000, 76, 3738-3740.	1.5	6
389	Interfacial electronic structure for Ca and an electroluminescent polymer: Poly (2,5-diheptyl-1,4-phenylene-alt-2,5-thienylene). Journal of Applied Physics, 2000, 87, 1331-1336.	1.1	8
390	Bipolaron formation in para-sexiphenyl thin films upon Cs doping. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 295-298.	0.9	18
391	Angle resolved ultraviolet photoelectron spectroscopy of oriented sexiphenyl layers. Synthetic Metals, 2000, 111-112, 591-594.	2.1	9
392	The influence of the counterion on the electronic structure in doped phenylene-based materials. Surface Science, 2000, 454-456, 1000-1004.	0.8	19
393	Bipolaron:â€‰ The Stable Charged Species in n-Doped p-Sexiphenyl. Journal of Physical Chemistry B, 2000, 104, 1434-1438.	1.2	48
394	Organic light-emitting devices based on new heterocyclic compounds. , 1999, 3797, 209.		6
395	Low-onset organic blue light emitting devices obtained by better interface control. Applied Physics Letters, 1999, 74, 2909-2911.	1.5	44
396	Novel low-molar-mass glasses for photorefractive and electroluminescent applications. Synthetic Metals, 1999, 102, 1535-1536.	2.1	2

#	Article	IF	Citations
397	Orientation of molecules in phenylene oligomer thin films: influence of the substrate temperature. Synthetic Metals, 1999, 101, 627-628.	2.1	14
398	The interaction of aluminum and p-sexiphenyl. Synthetic Metals, 1999, 101, 438-439.	2.1	8
399	Ultraviolet photoelectron spectroscopic study of heterocyclic model compounds for electroluminescent devices. Synthetic Metals, 1999, 102, 1069-1070.	2.1	3
400	Electronic structure of new donor acceptor substituted chromophores. Synthetic Metals, 1999, 101, 514-515.	2.1	0
401	Determination of Crystallite Size and Lattice Strain in Hexaphenyl Thin Films by Line Profile Analysis. Materials Research Society Symposia Proceedings, 1999, 561, 161.	0.1	7
402	The Valence Electronic Structure of N-Doped P-Sexiphenyl. Materials Research Society Symposia Proceedings, 1999, 561, 167.	0.1	2
403	A New Alternative for the Low-Workfunction Electrode in Organic Devices. Materials Research Society Symposia Proceedings, 1999, 598, 23.	0.1	1
404	Epitaxial Thin Film Structures of Electroluminescent Materials. Materials Research Society Symposia Proceedings, 1999, 598, 29.	0.1	0
405	Photoemission Study of Metal-Deposited p-Sexiphenyl Film. Materials Research Society Symposia Proceedings, 1999, 598, 315.	0.1	0
406	Evidence for Physisorption of Aluminum on the Surface of Electroluminescent Sexiphenyl. Advanced Materials, 1998, 10, 1038-1043.	11.1	24
407	<title>New polymeric heterolayer systems for efficient light-emitting devices</title>. , 1998, 3476, 188.		3
408	Investigations on the Aluminum/Para-Hexaphenyl Interface in Light Emitting Devices. Materials Research Society Symposia Proceedings, 1997, 488, 509.	0.1	4
409	Morphology of p-Hexaphenyl thin films. Synthetic Metals, 1997, 84, 649-650.	2.1	5
410	Crystal structure of p-hexaphenyl thin films. Synthetic Metals, 1997, 84, 279-280.	2.1	2
411	Growth and preferred crystallographic orientation of hexaphenyl thin films. Thin Solid Films, 1997, 305, 232-242.	0.8	79
412	Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the Bâ€“B Bond. Angewandte Chemie, 0, , .	1.6	0