

Bert A Nickel

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107
papers

4,877
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h-index

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123
ext. papers

5,347
ext. citations

7.4
avg, IF

5.22
L-index

#	Paper	IF	Citations
107	Quantum Size Effect in Organometal Halide Perovskite Nanoplatelets. <i>Nano Letters</i> , 2015 , 15, 6521-7	11.5	629
106	Pentacene Thin Film Growth. <i>Chemistry of Materials</i> , 2004 , 16, 4497-4508	9.6	541
105	Bonding self-assembled, compact organophosphonate monolayers to the native oxide surface of silicon. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16074-80	16.4	285
104	Determination of the crystal structure of substrate-induced pentacene polymorphs in fiber structured thin films. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10316-7	16.4	258
103	Pentacene ultrathin film formation on reduced and oxidized Si surfaces. <i>Physical Review B</i> , 2003 , 67,	3.3	200
102	Evidence for temperature-dependent electron band dispersion in pentacene. <i>Physical Review Letters</i> , 2006 , 96, 156803	7.4	181
101	Dynamic scaling, island size distribution, and morphology in the aggregation regime of submonolayer pentacene films. <i>Physical Review Letters</i> , 2003 , 91, 136102	7.4	164
100	Structure of pentacene thin films. <i>Applied Physics Letters</i> , 2004 , 85, 4926-4928	3.4	153
99	Hyperthermal molecular beam deposition of highly ordered organic thin films. <i>Physical Review Letters</i> , 2003 , 90, 206101	7.4	124
98	Ultrafast exciton relaxation in microcrystalline pentacene films. <i>Physical Review Letters</i> , 2007 , 99, 176402	7.4	109
97	Chemical functionalization of GaN and AlN surfaces. <i>Applied Physics Letters</i> , 2005 , 87, 263901	3.4	109
96	Ultrafast singlet and triplet dynamics in microcrystalline pentacene films. <i>Physical Review B</i> , 2009 , 79,	3.3	97
95	3D DNA Origami Crystals. <i>Advanced Materials</i> , 2018 , 30, e1800273	24	93
94	Organophosphonate-based PNA-functionalization of silicon nanowires for label-free DNA detection. <i>ACS Nano</i> , 2008 , 2, 1653-60	16.7	89
93	Confining metal-halide perovskites in nanoporous thin films. <i>Science Advances</i> , 2017 , 3, e1700738	14.3	81
92	Dislocation arrangements in pentacene thin films. <i>Physical Review B</i> , 2004 , 70,	3.3	81
91	Sub-micron phase coexistence in small-molecule organic thin films revealed by infrared nano-imaging. <i>Nature Communications</i> , 2014 , 5, 4101	17.4	76

90	Controlled nucleation and growth of CdS nanoparticles in a polymer matrix. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12603-9	3.4	65
89	Neural Networks Grown on Organic Semiconductors. <i>Advanced Functional Materials</i> , 2008 , 18, 1751-1756	5.6	62
88	Electrical Detection of Self-Assembled Polyelectrolyte Multilayers by a Thin Film Resistor. <i>Macromolecules</i> , 2006 , 39, 463-466	5.5	49
87	Shape and Interhelical Spacing of DNA Origami Nanostructures Studied by Small-Angle X-ray Scattering. <i>Nano Letters</i> , 2016 , 16, 4282-7	11.5	48
86	Structure and dynamics of crystalline protein layers bound to supported lipid bilayers. <i>Langmuir</i> , 2007 , 23, 6263-9	4	46
85	Perylene Sensitization of Fullerenes for Improved Performance in Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2011 , 1, 861-869	21.8	45
84	Horizontal ToF-neutron reflectometer REFSANS at FRM-II Munich/Germany: First tests and status. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 1161-1163	2.8	40
83	Pentacene devices: Molecular structure, charge transport and photo response. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 526-533	1.6	38
82	A microfluidic setup for studies of solid-liquid interfaces using x-ray reflectivity and fluorescence microscopy. <i>Review of Scientific Instruments</i> , 2005 , 76, 095103	1.7	38
81	Structure and mobility of lipid membranes on a thermoplastic substrate. <i>Langmuir</i> , 2006 , 22, 538-45	4	37
80	Polymer Nanoreactors Shield Perovskite Nanocrystals from Degradation. <i>Nano Letters</i> , 2019 , 19, 4928-4933	4.3	35
79	Phase separation in vacuum codeposited pentacene/6,13-pentacenequinone thin films. <i>Physical Review B</i> , 2007 , 75,	3.3	34
78	Observation of competing modes in the growth of diindenoperylene on SiO ₂ . <i>Thin Solid Films</i> , 2006 , 503, 127-132	2.2	34
77	Asymmetric distribution of anionic phospholipids in supported lipid bilayers. <i>Langmuir</i> , 2012 , 28, 10818-21	4.1	33
76	Chiral Assembly of Gold-Silver Core-Shell Plasmonic Nanorods on DNA Origami with Strong Optical Activity. <i>ACS Nano</i> , 2020 , 14, 7454-7461	16.7	32
75	Influence of ibuprofen on phospholipid membranes. <i>Physical Review E</i> , 2015 , 91, 022716	2.4	31
74	Position Accuracy of Gold Nanoparticles on DNA Origami Structures Studied with Small-Angle X-ray Scattering. <i>Nano Letters</i> , 2018 , 18, 2609-2615	11.5	31
73	Asymmetric structural features in single supported lipid bilayers containing cholesterol and GM1 resolved with synchrotron X-Ray reflectivity. <i>Biophysical Journal</i> , 2008 , 95, 657-68	2.9	31

72	Surface Segregation-Induced Critical Phenomena at FeCo(001) Surfaces. <i>Physical Review Letters</i> , 1997 , 78, 3880-3883	7.4	30
71	Isostructural Self-Assembled Monolayers. 1. Octadecyl 1-Thiaoligo(ethylene oxides). <i>Langmuir</i> , 2003 , 19, 2612-2620	4	29
70	Photocatalytic cleavage of self-assembled organic monolayers by UV-induced charge transfer from GaN substrates. <i>Advanced Materials</i> , 2010 , 22, 2632-6	24	28
69	Thickness-dependent in situ studies of trap states in pentacene thin film transistors. <i>Applied Physics Letters</i> , 2010 , 96, 083304	3.4	27
68	Growth of pentacene on Ag(111) surface: A NEXAFS study. <i>Applied Surface Science</i> , 2007 , 254, 103-107	6.7	27
67	Ammonia sensing for enzymatic urea detection using organic field effect transistors and a semipermeable membrane. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 162-168	7.3	26
66	Dual channel operation upon n-channel percolation in a pentacene-C60 ambipolar organic thin film transistor. <i>Advanced Materials</i> , 2013 , 25, 2147-51	24	26
65	Spin-resolved off-specular neutron scattering maps from magnetic multilayers using a polarized ³ He gas spin filter. <i>Review of Scientific Instruments</i> , 2001 , 72, 163-172	1.7	26
64	Aperiodic CrSc multilayer mirrors for attosecond water window pulses. <i>Optics Express</i> , 2013 , 21, 21728-403	4.3	25
63	Molecular architecture: construction of self-assembled organophosphonate duplexes and their electrochemical characterization. <i>Langmuir</i> , 2012 , 28, 7889-96	4	23
62	Mapping of trap densities and hotspots in pentacene thin-film transistors by frequency-resolved scanning photoresponse microscopy. <i>Advanced Materials</i> , 2013 , 25, 5719-24	24	23
61	Structural characterization of an elevated lipid bilayer obtained by stepwise functionalization of a self-assembled alkenyl silane film. <i>Biointerphases</i> , 2007 , 2, 109-18	1.8	23
60	Lanthanum-molybdenum multilayer mirrors for attosecond pulses between 80 and 130 eV. <i>New Journal of Physics</i> , 2011 , 13, 063038	2.9	22
59	Highly hydrated deformable polyethylene glycol-tethered lipid bilayers. <i>Langmuir</i> , 2014 , 30, 9442-7	4	21
58	Sub-nanometer control of the interlayer spacing in thin films of intercalated rodlike conjugated molecules. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 14097-101	3.4	21
57	Towards flexible organic thin film transistors (OTFTs) for biosensing. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3830-3835	7.3	19
56	A highly-ordered 3D covalent fullerene framework. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7577-81	16.4	18
55	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021 , 15, 3754-3807	16.7	18

54	Growth of Perovskite CsPbBr ₃ Nanocrystals and Their Formed Superstructures Revealed by In Situ Spectroscopy. <i>Chemistry of Materials</i> , 2020 , 32, 8877-8884	9.6	17
53	Spatially resolved photoresponse measurements on pentacene thin-film transistors. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 113-117	2.6	16
52	Pentacene thin-film transistors encapsulated by a thin alkane layer operated in an aqueous ionic environment. <i>Advanced Materials</i> , 2010 , 22, 4350-4	24	15
51	Bio-selective surfaces by chemically amplified constructive microlithography. <i>Surface Science</i> , 2007 , 601, 4984-4992	1.8	15
50	A Lipid Photoswitch Controls Fluidity in Supported Bilayer Membranes. <i>Langmuir</i> , 2020 , 36, 2629-2634	4	13
49	Critical adsorption and dimensional crossover in epitaxial FeCo films. <i>Physical Review Letters</i> , 2000 , 85, 134-7	7.4	13
48	Chromium/scandium multilayer mirrors for isolated attosecond pulses at 145 eV. <i>Optics Letters</i> , 2015 , 40, 2846-9	3	12
47	Ion polished Cr/Sc attosecond multilayer mirrors for high water window reflectivity. <i>Optics Express</i> , 2014 , 22, 26526-36	3.3	12
46	A Mo-anode-based in-house source for small-angle X-ray scattering measurements of biological macromolecules. <i>Review of Scientific Instruments</i> , 2016 , 87, 025103	1.7	10
45	DNA-linked superlattices get into shape. <i>Nature Materials</i> , 2015 , 14, 746-9	27	9
44	Nanostructured amorphous gallium phosphide on silica for nonlinear and ultrafast nanophotonics. <i>Nanoscale Horizons</i> , 2020 , 5, 1500-1508	10.8	9
43	Fast detection of blood gases by solution gated organic field effect transistors. <i>Organic Electronics</i> , 2016 , 39, 113-117	3.5	9
42	Nanostructures in n-Octanol Equilibrated with Additives and/or Water. <i>Langmuir</i> , 2018 , 34, 6285-6295	4	8
41	Lipid Monolayer Formation and Lipid Exchange Monitored by a Graphene Field-Effect Transistor. <i>Langmuir</i> , 2018 , 34, 4224-4233	4	8
40	Arrangement of Annexin A2 tetramer and its impact on the structure and diffusivity of supported lipid bilayers. <i>Soft Matter</i> , 2010 , 6, 4084	3.6	7
39	Nanostructure of supported lipid bilayers in water. <i>Biointerphases</i> , 2008 , 3, FC40-6	1.8	7
38	Reflectivity and off-specular neutron scattering from the free ferrofluid surface and silicon-ferrofluid interface. <i>Physica B: Condensed Matter</i> , 2001 , 297, 194-197	2.8	7
37	Reflectivity and off-specular neutron scattering from ferrofluid. <i>Physica B: Condensed Matter</i> , 2000 , 283, 203-207	2.8	7

36	Transferable Organic Semiconductor Nanosheets for Application in Electronic Devices. <i>Advanced Materials</i> , 2017 , 29, 1606283	24	6
35	Cell motility on polyethylene glycol block copolymers correlates to fibronectin surface adsorption. <i>Macromolecular Bioscience</i> , 2014 , 14, 1755-63	5.5	6
34	A Highly-Ordered 3D Covalent Fullerene Framework. <i>Angewandte Chemie</i> , 2015 , 127, 7687-7691	3.6	6
33	Sub-monolayer percolation of pentacene on rough parylene-C dielectrics. <i>Organic Electronics</i> , 2015 , 26, 439-442	3.5	5
32	Large polycyclic aromatic hydrocarbons for application in donor-acceptor photovoltaics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 785-789	1.6	5
31	Seed crystal free growth of high-quality double cation double halide perovskite single crystals for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8275-8283	7.1	5
30	Photocurrent microscopy of contact resistance and charge carrier traps in organic field-effect transistors. <i>Applied Physics Letters</i> , 2016 , 109, 053301	3.4	5
29	Polymer Lamellae as Reaction Intermediates in the Formation of Copper Nanospheres as Evidenced by In Situ X-ray Studies. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11627-11633	16.4	5
28	X-ray studies bridge the molecular and macro length scales during the emergence of CoO assemblies. <i>Nature Communications</i> , 2021 , 12, 4429	17.4	5
27	An Electrochemical Transducer Based on a Pentacene Double-Gate Thin-Film Transistor. <i>Electroanalysis</i> , 2012 , 24, 214-218	3	4
26	Surface-directed molecular assembly of pentacene on aromatic organophosphonate self-assembled monolayers explored by polarized Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 235-242	2.3	4
25	Photoresponse and morphology of pentacene thin films modified by oxidized and reduced diamond surfaces. <i>Physical Review B</i> , 2009 , 80,	3.3	4
24	Transient TCAD simulation of three-stage organic ring oscillator. <i>Journal of Computational Electronics</i> , 2007 , 5, 345-348	1.8	4
23	Supported membranes on polyelectrolyte layers studied by X-ray reflectometry. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3463-3467	1.6	4
22	Metal vs. Polymer Electrodes in Organic Devices: Energy Level Alignment, Hole Injection, and Structure. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 771, 361		4
21	Crossover between strong- and weak-field critical adsorption and the determination of the universal exponent ν . <i>Journal of Chemical Physics</i> , 2002 , 117, 902-908	3.9	4
20	Dihexyl-sexithiophene thin films for solution-gated organic field-effect transistors. <i>Applied Physics Letters</i> , 2016 , 108, 073301	3.4	4
19	Aperiodic multilayer mirrors for attosecond soft x-ray pulses 2012 ,		3

18	Structure of Nanocomposite films of CdS nanoparticles in a polymer matrix. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 847, 158		2
17	Probing the Interface Structure of Adhering Cells by Contrast Variation Neutron Reflectometry. <i>Langmuir</i> , 2019 , 35, 513-521	4	2
16	Polymer Lamellae as Reaction Intermediates in the Formation of Copper Nanospheres as Evidenced by In Situ X-ray Studies. <i>Angewandte Chemie</i> , 2020 , 132, 11724-11730	3.6	1
15	A resistor network simulation model for laser-scanning photo-current microscopy to quantify low conductance regions in organic thin films. <i>Organic Electronics</i> , 2018 , 62, 474-480	3.5	1
14	The Ultrafast Dynamics of Electronic Excitations in Pentacene Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1270, 1		1
13	Neural Stem Cell Spreading on Lipid Based Artificial Cell Surfaces, Characterized by Combined X-ray and Neutron Reflectometry. <i>Materials</i> , 2010 , 3, 4994-5006	3.5	1
12	Pentacene Devices: Molecular Structure, Charge Transport and Photo Response	299-315	1
11	Trapping Effects in Organic Thin Film Transistors		1
10	Modular Assembly of Vibrationally and Electronically Coupled Rhenium Bipyridine Carbonyl Complexes on Silicon. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19505-19516	16.4	1
9	Microdiffraction imaging – suitable tool to characterize organic electronic devices. <i>AIMS Materials Science</i> , 2015 , 2, 369-378	1.9	1
8	Scanning photocurrent microscopy of electrons and holes in the pigment semiconductor epindolidione. <i>Organic Electronics</i> , 2018 , 60, 51-56	3.5	1
7	Broadband multilayer mirror and diffractive optics for attosecond pulse shaping in the 280-500 eV photon energy range. <i>EPJ Web of Conferences</i> , 2013 , 41, 01011	0.3	0
6	Doubly Stabilized Perovskite Nanocrystal Luminescence Downconverters. <i>Advanced Optical Materials</i> , 2102791	8.1	0
5	Röntgenbild: A Highly-Ordered 3D Covalent Fullerene Framework (Angew. Chem. 26/2015). <i>Angewandte Chemie</i> , 2015 , 127, 7830-7830	3.6	
4	Role of Charge Interaction in the Behavior of Organic Thin Film Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1003, 1		
3	Growth and Morphology of Pentacene Films on Oxide Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 708, 10541		
2	Electronic Excitations in Pentacene Films: Singlet versus Triplet Dynamics. <i>Springer Series in Chemical Physics</i> , 2009 , 376-378	0.3	
1	X-ray study of anisotropically shaped metal halide perovskite nanoparticles in tubular pores. <i>Applied Physics Letters</i> , 2018 , 113, 251901	3.4	

