Jiri Novak

List of Publications by Year in descending order

56 papers	1,039 citations	361413 20 h-index	477307 29 g-index
56 all docs	56 docs citations	56 times ranked	1834 citing authors

#	Article	IF	Citations
1	Addressing shape and extent of Weyl cones in TaAs by Landau level spectroscopy. Physical Review B, 2022, 105, .	3.2	7
2	Molecular packing analysis of the crystal smectic E phase of a benzothieno-benzothiophene derivative by a combined experimental / computational approach. Liquid Crystals, 2021, 48, 1888-1896.	2.2	8
3	A Novel Mitigation Mechanism for Photoâ€Induced Trapping in an Anthradithiophene Derivative Using Additives. Advanced Electronic Materials, 2020, 6, 2000250.	5.1	5
4	Tuning Spin Current Injection at Ferromagnet-Nonmagnet Interfaces by Molecular Design. Physical Review Letters, 2020, 124, 027204.	7.8	19
5	Structure-Dependent Charge Transfer in Molecular Perylene-Based Donor/Acceptor Systems and Role of Side Chains. Journal of Physical Chemistry C, 2020, 124, 11639-11651.	3.1	10
6	Epitaxial Order Driven by Surface Corrugation: Quinquephenyl Crystals on a Cu(110)-(2Ã—1)O Surface. Crystals, 2019, 9, 373.	2.2	3
7	Annealing Behavior with Thickness Hindered Nucleation in Small-Molecule Organic Semiconductor Thin Films. Crystal Growth and Design, 2019, 19, 3777-3784.	3.0	2
8	Energy scale of Dirac electrons in Cd3As2. Physical Review B, 2018, 97, .	3.2	16
9	Real-Time Structural and Optical Study of Growth and Packing Behavior of Perylene Diimide Derivative Thin Films: Influence of Side-Chain Modification. Journal of Physical Chemistry C, 2018, 122, 8589-8601.	3.1	19
10	Nonuniform carrier density in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mn>3</mml:mn> evidenced by optical spectroscopy. Physical Review B, 2018, 97, .	3.2	22
11	Delayed phase separation in growth of organic semiconductor blends with limited intermixing. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600428.	2.4	2
12	Influence of C60 co-deposition on the growth kinetics of diindenoperyleneâ€“From rapid roughening to layer-by-layer growth in blended organic films. Journal of Chemical Physics, 2017, 146, 052807.	3.0	6
13	Growth, Structure, and Anisotropic Optical Properties of Difluoro-anthradithiophene Thin Films. Journal of Physical Chemistry C, 2017, 121, 21011-21017.	3.1	11
14	Determination of the energy band gap of Bi2Se3. Scientific Reports, 2017, 7, 6891.	3.3	41
15	Efficient singlet exciton fission in pentacene prepared from a soluble precursor. APL Materials, 2016, 4, .	5.1	13
16	Magneto-optical investigations of molecular nanomagnet monolayers. Dalton Transactions, 2016, 45, 7555-7558.	3.3	5
17	Site-Specific Ligand Interactions Favor the Tetragonal Distortion of PbS Nanocrystal Superlattices. ACS Applied Materials & Interfaces, 2016, 8, 22526-22533.	8.0	31
18	Naphthacenodithiophene Based Polymersâ€”New Members of the Acenodithiophene Family Exhibiting High Mobility and Power Conversion Efficiency. Advanced Functional Materials, 2016, 26, 6961-6969.	14.9	19

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19	Magneto-Optical Signature of Massless Kane Electrons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Physical Review Letters, 2016, 117, 136401.	7.8	93
20	Direct Câ€“H arylation for various Ar-cored diketopyrrolopyrrole containing small molecules in solution-processed field-effect transistors. RSC Advances, 2016, 6, 57163-57173.	3.6	12
21	Direct observation of conductive filament formation in Alq3 based organic resistive memories. Journal of Applied Physics, 2015, 118, .	2.5	36
22	Structural Properties of Piceneâ€“Perfluoropentacene and Piceneâ€“Pentacene Blends: Superlattice Formation versus Limited Intermixing. Journal of Physical Chemistry C, 2015, 119, 26339-26347.	3.1	13
23	Structure and Morphology of Organic Semiconductorâ€“Nanoparticle Hybrids Prepared by Soft Deposition. Journal of Physical Chemistry C, 2015, 119, 5225-5237.	3.1	5
24	Air-stable, non-volatile resistive memory based on hybrid organic/inorganic nanocomposites. Organic Electronics, 2015, 18, 17-23.	2.6	47
25	Island size evolution and molecular diffusion during growth of organic thin films followed by time-resolved specular and off-specular scattering. Physical Review B, 2014, 90, .	3.2	25
26	Analysis of island shape evolution from diffuse x-ray scattering of organic thin films and implications for growth. Physical Review B, 2014, 90, .	3.2	18
27	Unravelling the multilayer growth of the fullerene C60 in real time. Nature Communications, 2014, 5, 5388.	12.8	79
28	Fabrication and characterization of combined metallic nanogratings and ITO electrodes for organic photovoltaic cells. Microelectronic Engineering, 2014, 119, 122-126.	2.4	14
29	Real time X-ray scattering study of the formation of ZnS nanoparticles using synchrotron radiation. Materials Chemistry and Physics, 2014, 144, 310-317.	4.0	6
30	Effect of the Alkyl Chain Length of Secondary Amines on the Phase Transfer of Gold Nanoparticles from Water to Toluene. Langmuir, 2014, 30, 6684-6693.	3.5	27
31	Structure formation in perfluoropentacene:diindenoperylene blends and its impact on transient effects in the optical properties studied in real-time during growth. Journal of Chemical Physics, 2013, 139, 174709.	3.0	11
32	Evidence for Kinetically Limited Thickness Dependent Phase Separation in Organic Thin Film Blends. Physical Review Letters, 2013, 110, 185506.	7.8	35
33	Real-time X-ray scattering studies on temperature dependence of perfluoropentacene thin film growth. Journal of Applied Physics, 2013, 114, 043515.	2.5	12
34	Post-growth surface smoothing of thin films of diindenoperylene. Applied Physics Letters, 2012, 101, 033307.	3.3	23
35	Mixing-Induced Anisotropic Correlations in Molecular Crystalline Systems. Physical Review Letters, 2012, 109, 156102.	7.8	25
36	Interface Induced Crystal Structures of Dioctyl-Terthiophene Thin Films. Langmuir, 2012, 28, 8530-8536.	3.5	22

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37	Reaction dynamics of diffusion soldering with the eutectic Auâ€“Sn alloy on copper and silver substrates. Intermetallics, 2012, 20, 87-92.	3.9	21
38	X-ray radiation damage of organic semiconductor thin films during grazing incidence diffraction experiments. Nuclear Instruments & Methods in Physics Research B, 2012, 284, 64-68.	1.4	24
39	Grazing-incidence in-plane X-ray diffraction on ultra-thin organic films using standard laboratory equipment. Journal of Applied Crystallography, 2012, 45, 367-370.	4.5	18
40	Crystal growth of para-sexiphenyl on clean and oxygen reconstructed Cu(110) surfaces. Physical Chemistry Chemical Physics, 2011, 13, 14675.	2.8	35
41	Templating Effect for Organic Heterostructure Film Growth: Perfluoropentacene on Diindenoperylene. Journal of Physical Chemistry C, 2011, 115, 16155-16160.	3.1	28
42	Microstructure and Phase Behavior of a Quinquethiophene-Based Self-Assembled Monolayer as a Function of Temperature. Journal of Physical Chemistry C, 2011, 115, 22925-22930.	3.1	21
43	Temperature stability of the pentacene thin-film phase. Applied Physics Letters, 2011, 99, 221911.	3.3	21
44	Structural reordering in monolayers of gold nanoparticles during transfer from water surface to solid substrate. Physical Review E, 2011, 83, 051605.	2.1	14
45	Structure and morphology of an organic/inorganic multilayer stack: An x-ray reflectivity study. Journal of Applied Physics, 2011, 110, .	2.5	6
46	Mn-doped ZnO nanocrystals embedded in Al₂O₃: structural and electrical properties. Nanotechnology, 2010, 21, 505705.	2.6	11
47	Surface Modifications Using a Water-Stable Silanetriol in Neutral Aqueous Media. ACS Applied Materials & Interfaces, 2010, 2, 2956-2962.	8.0	32
48	The sequential growth mechanism of a protein monolayer at the airâ€“water interface. Soft Matter, 2010, 6, 3826.	2.7	11
49	Interdiffusion in SiGe alloys with Ge contents of 25% and 50% studied by Xâ€ray reflectivity. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2441-2448.	1.8	4
50	In situinvestigations of Si and Ge interdiffusion in Ge-rich Si/SiGe multilayers using x-ray scattering. Semiconductor Science and Technology, 2007, 22, 447-453.	2.0	17
51	Growth and characterization of two- and three-dimensionally ordered quantum dots. Journal of Physics: Conference Series, 2006, 38, 69-74.	0.4	2
52	A method for the characterization of strain fields in buried quantum dots using x-ray standing waves. Journal Physics D: Applied Physics, 2005, 38, A137-A142.	2.8	3
53	High temperature investigations of Si/SiGe based cascade structures using x-ray scattering methods. Journal Physics D: Applied Physics, 2005, 38, A121-A125.	2.8	9
54	Geâ^•Si islands in a three-dimensional island crystal studied by x-ray diffraction. Journal of Applied Physics, 2005, 98, 073517.	2.5	12

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55	Spontaneous lateral modulation in short-period superlattices investigated by grazing-incidence x-ray diffraction. Physical Review B, 2005, 72, .	3.2	2
56	Annealing studies of high Ge composition Si/SiGe multilayers. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.8	6