Jiri Novak

List of Publications by Year
in descending order

56 papers	1,039 citations	361045 20 h-index	476904 29 g-index
56 all docs	56 docs citations	56 times ranked	1834 citing authors

#	Article	IF	Citations
1	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></mml:mrow></mml:msub></mml:mrow></mml:mrow></mml:math>/n Physical Review Letters, 2016, 117, 136401.	2.9	93
2	Unravelling the multilayer growth of the fullerene C60 in real time. Nature Communications, 2014, 5, 5388.	5.8	79
3	Air-stable, non-volatile resistive memory based on hybrid organic/inorganic nanocomposites. Organic Electronics, 2015, 18, 17-23.	1.4	47
4	Determination of the energy band gap of Bi2Se3. Scientific Reports, 2017, 7, 6891.	1.6	41
5	Direct observation of conductive filament formation in Alq3 based organic resistive memories. Journal of Applied Physics, 2015, 118, .	1.1	36
6	Crystal growth of para-sexiphenyl on clean and oxygen reconstructed Cu(110) surfaces. Physical Chemistry Chemical Physics, 2011, 13, 14675.	1.3	35
7	Evidence for Kinetically Limited Thickness Dependent Phase Separation in Organic Thin Film Blends. Physical Review Letters, 2013, 110, 185506.	2.9	35
8	Surface Modifications Using a Water-Stable Silanetriol in Neutral Aqueous Media. ACS Applied Materials & Interfaces, 2010, 2, 2956-2962.	4.0	32
9	Site-Specific Ligand Interactions Favor the Tetragonal Distortion of PbS Nanocrystal Superlattices. ACS Applied Materials & Interfaces, 2016, 8, 22526-22533.	4.0	31
10	Templating Effect for Organic Heterostructure Film Growth: Perfluoropentacene on Diindenoperylene. Journal of Physical Chemistry C, 2011, 115, 16155-16160.	1.5	28
11	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.	1.6	27
12	Mixing-Induced Anisotropic Correlations in Molecular Crystalline Systems. Physical Review Letters, 2012, 109, 156102.	2.9	25
13	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, .	1.1	25
14	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.	0.6	24
15	Post-growth surface smoothing of thin films of diindenoperylene. Applied Physics Letters, 2012, 101, 033307.	1.5	23
16	Interface Induced Crystal Structures of Dioctyl-Terthiophene Thin Films. Langmuir, 2012, 28, 8530-8536.	1.6	22
17	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:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>/n evidenced by optical spectroscopy. Physical Review B, 2018, 97, .	0.7	22
18	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.	1.5	21

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19	Temperature stability of the pentacene thin-film phase. Applied Physics Letters, 2011, 99, 221911.	1.5	21
20	Reaction dynamics of diffusion soldering with the eutectic Auâ€“Sn alloy on copper and silver substrates. Intermetallics, 2012, 20, 87-92.	1.8	21
21	Naphthacenodithiophene Based Polymersâ€”New Members of the Acenodithiophene Family Exhibiting High Mobility and Power Conversion Efficiency. Advanced Functional Materials, 2016, 26, 6961-6969.	7.8	19
22	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.	1.5	19
23	Tuning Spin Current Injection at Ferromagnet-Nonmagnet Interfaces by Molecular Design. Physical Review Letters, 2020, 124, 027204.	2.9	19
24	Grazing-incidence in-plane X-ray diffraction on ultra-thin organic films using standard laboratory equipment. Journal of Applied Crystallography, 2012, 45, 367-370.	1.9	18
25	Analysis of island shape evolution from diffuse x-ray scattering of organic thin films and implications for growth. Physical Review B, 2014, 90, .	1.1	18
26	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.	1.0	17
27	Energy scale of Dirac electrons in Cd3As2. Physical Review B, 2018, 97, .	1.1	16
28	Structural reordering in monolayers of gold nanoparticles during transfer from water surface to solid substrate. Physical Review E, 2011, 83, 051605.	0.8	14
29	Fabrication and characterization of combined metallic nanogratings and ITO electrodes for organic photovoltaic cells. Microelectronic Engineering, 2014, 119, 122-126.	1.1	14
30	Structural Properties of Piceneâ€“Perfluoropentacene and Piceneâ€“Pentacene Blends: Superlattice Formation versus Limited Intermixing. Journal of Physical Chemistry C, 2015, 119, 26339-26347.	1.5	13
31	Efficient singlet exciton fission in pentacene prepared from a soluble precursor. APL Materials, 2016, 4, .	2.2	13
32	Geâ•Si islands in a three-dimensional island crystal studied by x-ray diffraction. Journal of Applied Physics, 2005, 98, 073517.	1.1	12
33	Real-time X-ray scattering studies on temperature dependence of perfluoropentacene thin film growth. Journal of Applied Physics, 2013, 114, 043515.	1.1	12
34	Direct Câ€“H arylation for various Ar-cored diketopyrrolopyrrole containing small molecules in solution-processed field-effect transistors. RSC Advances, 2016, 6, 57163-57173.	1.7	12
35	Mn-doped ZnO nanocrystals embedded in Al₂O₃: structural and electrical properties. Nanotechnology, 2010, 21, 505705.	1.3	11
36	The sequential growth mechanism of a protein monolayer at the airâ€“water interface. Soft Matter, 2010, 6, 3826.	1.2	11

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37	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.	1.2	11
38	Growth, Structure, and Anisotropic Optical Properties of Difluoro-anthradithiophene Thin Films. Journal of Physical Chemistry C, 2017, 121, 21011-21017.	1.5	11
39	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.	1.5	10
40	High temperature investigations of Si/SiGe based cascade structures using x-ray scattering methods. Journal Physics D: Applied Physics, 2005, 38, A121-A125.	1.3	9
41	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.	0.9	8
42	Addressing shape and extent of Weyl cones in TaAs by Landau level spectroscopy. Physical Review B, 2022, 105, .	1.1	7
43	Annealing studies of high Ge composition Si/SiGe multilayers. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.4	6
44	Structure and morphology of an organic/inorganic multilayer stack: An x-ray reflectivity study. Journal of Applied Physics, 2011, 110, .	1.1	6
45	Real time X-ray scattering study of the formation of ZnS nanoparticles using synchrotron radiation. Materials Chemistry and Physics, 2014, 144, 310-317.	2.0	6
46	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.	1.2	6
47	Structure and Morphology of Organic Semiconductorâ€“Nanoparticle Hybrids Prepared by Soft Deposition. Journal of Physical Chemistry C, 2015, 119, 5225-5237.	1.5	5
48	Magneto-optical investigations of molecular nanomagnet monolayers. Dalton Transactions, 2016, 45, 7555-7558.	1.6	5
49	A Novel Mitigation Mechanism for Photoâ€Induced Trapping in an Anthradithiophene Derivative Using Additives. Advanced Electronic Materials, 2020, 6, 2000250.	2.6	5
50	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.	0.8	4
51	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.	1.3	3
52	Epitaxial Order Driven by Surface Corrugation: Quinquephenyl Crystals on a Cu(110)-(2Ã—1)O Surface. Crystals, 2019, 9, 373.	1.0	3
53	Spontaneous lateral modulation in short-period superlattices investigated by grazing-incidence x-ray diffraction. Physical Review B, 2005, 72, .	1.1	2
54	Growth and characterization of two- and three-dimensionally ordered quantum dots. Journal of Physics: Conference Series, 2006, 38, 69-74.	0.3	2

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55	Delayed phase separation in growth of organic semiconductor blends with limited intermixing. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600428.	1.2	2
56	Annealing Behavior with Thickness Hindered Nucleation in Small-Molecule Organic Semiconductor Thin Films. Crystal Growth and Design, 2019, 19, 3777-3784.	1.4	2