

Martin Ledinsky

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5547607/martin-ledinsky-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

3,700
citations

21
h-index

59
g-index

111
ext. papers

4,175
ext. citations

4.2
avg, IF

5
L-index

#	Paper	IF	Citations
103	Organometallic Halide Perovskites: Sharp Optical Absorption Edge and Its Relation to Photovoltaic Performance. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1035-9	6.4	1699
102	Organic-inorganic halide perovskite/crystalline silicon four-terminal tandem solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1619-29	3.6	257
101	Raman Spectroscopy of Organic-Inorganic Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 401-6	6.4	182
100	Temperature Dependence of the Urbach Energy in Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1368-1373	6.4	116
99	Size and Purity Control of HPHT Nanodiamonds down to 1 nm. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27708-27720	3.8	112
98	Organic-Inorganic Halide Perovskites: Perspectives for Silicon-Based Tandem Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2014 , 4, 1545-1551	3.7	100
97	Passivating electron contact based on highly crystalline nanostructured silicon oxide layers for silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 158, 2-10	6.4	68
96	Formation of Continuous Nanocrystalline Diamond Layers on Glass and Silicon at Low Temperatures. <i>Chemical Vapor Deposition</i> , 2008 , 14, 181-186		68
95	High-yield fabrication and properties of 1.4 nm nanodiamonds with narrow size distribution. <i>Scientific Reports</i> , 2016 , 6, 38419	4.9	50
94	Characterization of mixed phase silicon by Raman spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1209-1212	3.9	43
93	Strategies for Doped Nanocrystalline Silicon Integration in Silicon Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 1132-1140	3.7	42
92	Gold Micrometer Crystals Modified with Carboranethiol Derivatives. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14446-14455	3.8	42
91	Experimental quantification of useful and parasitic absorption of light in plasmon-enhanced thin silicon films for solar cells application. <i>Scientific Reports</i> , 2016 , 6, 22481	4.9	37
90	Ultrathin Nanocrystalline Diamond Films with Silicon Vacancy Color Centers via Seeding by 2 nm Detonation Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38842-38853	9.5	34
89	Crystallinity of the mixed phase silicon thin films by Raman spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2253-2257	3.9	34
88	Lead Halide Residue as a Source of Light-Induced Reversible Defects in Hybrid Perovskite Layers and Solar Cells. <i>ACS Energy Letters</i> , 2019 , 4, 3011-3017	20.1	29
87	Photovoltage effects in polypyrrole-diamond nanosystem. <i>Diamond and Related Materials</i> , 2009 , 18, 249-252	3.5	28

86	Detecting sp ² phase on diamond surfaces by atomic force microscopy phase imaging and its effects on surface conductivity. <i>Diamond and Related Materials</i> , 2009 , 18, 722-725	3.5	27
85	Effect of hydrogen passivation on polycrystalline silicon thin films. <i>Thin Solid Films</i> , 2005 , 487, 152-156	2.2	27
84	Effective extraction of photoluminescence from a diamond layer with a photonic crystal. <i>ACS Nano</i> , 2011 , 5, 346-50	16.7	24
83	Characterization of the mechanical properties of qPlus sensors. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 1-9	3	21
82	Local photoconductivity of microcrystalline silicon thin films measured by conductive atomic force microscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 373-375	2.5	21
81	Synthesis, structure, and opto-electronic properties of organic-based nanoscale heterojunctions. <i>Nanoscale Research Letters</i> , 2011 , 6, 238	5	21
80	Seeding of polymer substrates for nanocrystalline diamond film growth. <i>Diamond and Related Materials</i> , 2009 , 18, 734-739	3.5	21
79	Single-Source, Solvent-Free, Room Temperature Deposition of Black ECsSnI ₃ Films. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000162	4.6	20
78	The structure and growth mechanism of Si nanoneedles prepared by plasma-enhanced chemical vapor deposition. <i>Nanotechnology</i> , 2010 , 21, 415604	3.4	19
77	Comparative study on dry etching of polycrystalline diamond thin films. <i>Vacuum</i> , 2012 , 86, 799-802	3.7	18
76	On the effects of hydrogenation of thin film polycrystalline silicon: A key factor to improve heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 122, 31-39	6.4	17
75	Function of thin film nanocrystalline diamond-protein SGFET independent of grain size. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 239-245	8.5	17
74	Dielectric, magnetic and structural properties of novel multiferroic Eu _{0.5} Ba _{0.5} TiO ₃ ceramics. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 025904	1.8	16
73	Assembly of osteoblastic cell micro-arrays on diamond guided by protein pre-adsorption. <i>Diamond and Related Materials</i> , 2010 , 19, 153-157	3.5	15
72	Enhancing nanocrystalline diamond surface conductivity by deposition temperature and chemical post-processing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 276-280	1.6	15
71	Simplified procedure for patterned growth of nanocrystalline diamond micro-structures. <i>Thin Solid Films</i> , 2009 , 518, 343-347	2.2	15
70	Electrochemical synthesis and electronic properties of polypyrrole on intrinsic diamond. <i>Diamond and Related Materials</i> , 2009 , 18, 1098-1101	3.5	15
69	Correlation of atomic force microscopy detecting local conductivity and micro-Raman spectroscopy on polymer-fullerene composite films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, 193-195	2.5	15

68	Microcrystalline silicon, grain boundaries and role of oxygen. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1444-1447	6.4	14
67	Photocurrent Spectroscopy of Perovskite Layers and Solar Cells: A Sensitive Probe of Material Degradation. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 838-843	6.4	13
66	Conductive atomic force microscopy on carbon nanowalls. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2545-2547	3.9	13
65	Ultrasharp Si nanowires produced by plasma-enhanced chemical vapor deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 37-39	2.5	13
64	How Humidity and Light Exposure Change the Photophysics of Metal Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000382	7.1	13
63	Profilometry of thin films on rough substrates by Raman spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 37859	4.9	13
62	Microscopically inhomogeneous electronic and material properties arising during thermal and plasma CVD of graphene. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8939-8948	7.1	12
61	HFCVD growth of various carbon nanostructures on SWCNT paper controlled by surface treatment. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2399-2403	1.3	12
60	Creating nanocrystals in amorphous silicon using a conductive tip. <i>Nanotechnology</i> , 2009 , 20, 045302	3.4	12
59	Discriminating adenocarcinoma from normal colonic mucosa through deconvolution of Raman spectra. <i>Journal of Biomedical Optics</i> , 2011 , 16, 127001	3.5	12
58	Correlative microscopy of radial junction nanowire solar cells using nanoindent position markers. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 135, 106-112	6.4	11
57	Guided assembly of nanoparticles on electrostatically charged nanocrystalline diamond thin films. <i>Nanoscale Research Letters</i> , 2011 , 6, 144	5	11
56	Defects generation by hydrogen passivation of polycrystalline silicon thin films. <i>Solar Energy</i> , 2006 , 80, 653-657	6.8	11
55	Light trapping in thin-film solar cells measured by Raman spectroscopy. <i>Applied Physics Letters</i> , 2014 , 105, 111106	3.4	10
54	Transport properties of microcrystalline silicon, prepared at high growth rate. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1097-1100	3.9	10
53	Novel plasma treatment in linear antenna microwave PECVD system. <i>Vacuum</i> , 2012 , 86, 603-607	3.7	9
52	Direct growth of sub-micron diamond structures. <i>Vacuum</i> , 2012 , 86, 693-695	3.7	9
51	Microscopic measurements of variations in local (photo)electronic properties in nanostructured solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 119, 228-234	6.4	9

50	Electrical properties of carbon nanowall films. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2548-2551	3.9	9
49	Spatially localized current-induced crystallization of amorphous silicon films. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2305-2309	3.9	9
48	Photovoltaic characterization of graphene/silicon Schottky junctions from local and macroscopic perspectives. <i>Chemical Physics Letters</i> , 2017 , 676, 82-88	2.5	8
47	Relation of nanoscale and macroscopic properties of mixed-phase silicon thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 582-586	1.6	8
46	Patterning of hydrogenated microcrystalline silicon growth by magnetic field. <i>Applied Physics Letters</i> , 2005 , 87, 011901	3.4	8
45	Controlled Growth of Large Grains in CH ₃ NH ₃ PbI ₃ Perovskite Films Mediated by an Intermediate Liquid Phase without an Antisolvent for Efficient Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12484-12493	6.1	8
44	Pulsed Laser Deposition of CsAgBiBr: from Mechanochemically Synthesized Powders to Dry, Single-Step Deposition. <i>Chemistry of Materials</i> , 2021 , 33, 7417-7422	9.6	8
43	Direct Imaging of Dopant Distribution in Polycrystalline ZnO Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7241-7248	9.5	7
42	Infrared spectroscopic properties of low-phonon lanthanide-doped KLuS ₂ crystals. <i>Journal of Luminescence</i> , 2019 , 211, 100-107	3.8	7
41	Investigating inhomogeneous electronic properties of radial junction solar cells using correlative microscopy. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08KA08	1.4	7
40	Impact of Cation Multiplicity on Halide Perovskite Defect Densities and Solar Cell Voltages. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27333-27339	3.8	7
39	How nanocrystalline diamond films become charged in nanoscale. <i>Diamond and Related Materials</i> , 2012 , 24, 39-43	3.5	7
38	Optical characterisation of organosilane-modified nanocrystalline diamond films. <i>Chemical Papers</i> , 2011 , 65,	1.9	7
37	Local electrostatic charging differences of sub-100 nm nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2040-2044	1.6	7
36	A simple tool for quality evaluation of the microcrystalline silicon prepared at high growth rate. <i>Thin Solid Films</i> , 2008 , 516, 4966-4969	2.2	7
35	Hydrogenation of polycrystalline silicon thin films. <i>Thin Solid Films</i> , 2006 , 501, 144-148	2.2	7
34	Formation of microcrystalline silicon at low temperatures and role of hydrogen. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 287-290	3.9	7
33	Illumination-induced charge transfer in polypyrrole-diamond nanosystem. <i>Diamond and Related Materials</i> , 2009 , 18, 800-803	3.5	6

32	Structure and Properties of Silicon Thin Films Deposited at Low Substrate Temperatures. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L987-L989	1.4	6
31	Role of the tip induced local anodic oxidation in the conductive atomic force microscopy of mixed phase silicon thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		5
30	Mapping of mechanical stress in silicon thin films on silicon cantilevers by Raman microspectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2235-2237	3.9	5
29	Size Effects on Surface Chemistry and Raman Spectra of Sub-5 nm Oxidized High-Pressure High-Temperature and Detonation Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5647-5669 ^{3.8}		5
28	Photolithography-free interdigitated back-contacted silicon heterojunction solar cells with efficiency >21% 2014 ,		4
27	Local photoconductivity of microcrystalline silicon thin films excited by 442nm HeCd laser measured by conductive atomic force microscopy. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2082-2085 ^{3.9}		4
26	Microcrystalline silicon prepared at magnetic field modified nucleation. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 901-905	3.9	4
25	Silicon thin films deposited at very low substrate temperatures. <i>Thin Solid Films</i> , 2003 , 442, 163-166	2.2	4
24	NEAR INFRARED PHOTOLUMINESCENCE OF THE HYDROGENATED AMORPHOUS SILICON THIN FILMS WITH IN-SITU EMBEDDED SILICON NANOPARTICLES. <i>Ceramics - Silikaty</i> , 2017 , 136-140	0.6	4
23	Local Photovoltaic Properties of Graphene/Silicon Heterojunctions. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800305	1.3	4
22	Effects of nanowire size and geometry on silicon nanowire array thin film solar cells. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 011401	1.3	3
21	Impact of AFM-induced nano-pits in a-Si:H films on silicon crystal growth. <i>Nanoscale Research Letters</i> , 2011 , 6, 145	5	3
20	Combined Photoluminescence and X-ray Scattering Reveals Defect Formation in Lead-Halide Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10156-10162	6.4	3
19	Phosphate content influence on structural, spectroscopic, and lasing properties of Er,Yb-doped potassium-lanthanum phosphate glasses. <i>Optical Engineering</i> , 2016 , 55, 047102	1.1	3
18	In-depth distribution of elements and chemical bonds in the surface region of calcium-doped diamond-like carbon films. <i>Applied Surface Science</i> , 2021 , 539, 148250	6.7	3
17	Optoelectronic performance of poly(p-phenylenevinylene)-based heterostructures evaluated by scanning probe techniques. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2828-2831	1.3	2
16	Applications of intense ultra-short XUV pulses to solid state physics: time-resolved luminescence spectroscopy and radiation damage studies 2007 ,		2
15	Transferless Inverted Graphene/Silicon Heterostructures Prepared by Plasma-Enhanced Chemical Vapor Deposition of Amorphous Silicon on CVD Graphene. <i>Nanomaterials</i> , 2020 , 10,	5.4	1

14	Preparation and testing of silicon nanowires. <i>Canadian Journal of Physics</i> , 2014 , 92, 819-821	1.1	1
13	LiF enhanced nucleation of the low temperature microcrystalline silicon prepared by plasma enhanced chemical vapour deposition. <i>Thin Solid Films</i> , 2009 , 517, 6829-6832	2.2	1
12	A simple quality factor for characterization of thin silicon films. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2227-2230	3.9	1
11	Controlled growth of nanocrystalline silicon on permalloy micro-patterns. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 88, 797-800	2.6	1
10	Properties of Microcrystalline Silicon Prepared at High Growth Rate 2006 ,		1
9	On the Origin of Reduced Cytotoxicity of Germanium-Doped Diamond-Like Carbon: Role of Top Surface Composition and Bonding. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
8	Nanoscale Study of the Hole-Selective Passivating Contacts with High Thermal Budget Using C-AFM Tomography. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9994-10000	9.5	0
7	Magnetotransport in graphene on silicon side of SiC. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012038	0.3	
6	Decomposition of Mixed Phase Silicon Raman Spectra. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		
5	Microscopic Characterizations of Nanostructured Silicon Thin Films for Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1321, 313		
4	Properties of thin film silicon, prepared at high growth rate in a wide range of thicknesses. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2451-2454	3.9	
3	Thin silicon films deposited at low substrate temperatures studied by surface photovoltage technique. <i>Thin Solid Films</i> , 2004 , 451-452, 408-412	2.2	
2	Growth defects in WC:H layers for tribological applications. <i>Vacuum</i> , 2020 , 178, 109372	3.7	
1	Local Photovoltaic Properties of GrapheneSilicon Heterojunctions (Phys. Status Solidi B 12/2018). <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1870144	1.3	