Antonin Fejfar

List of Publications by Citations

150 papers	2,415 citations	24 h-index	42 g-index
162 ext. papers	2,645 ext. citations	3.3 avg, IF	4.31 L-index

#	Paper	IF	Citations
150	Optical absorption and light scattering in microcrystalline silicon thin films and solar cells. *Journal of Applied Physics*, **2000**, 88, 148-160	2.5	205
149	Raman Spectroscopy of Organic-Inorganic Halide Perovskites. *Journal of Physical Chemistry Letters*, **2015**, 6, 401-6	6.4	182
148	Temperature Dependence of the Urbach Energy in Lead Iodide Perovskites. *Journal of Physical Chemistry Letters*, **2019**, 10, 1368-1373	6.4	116
147	Size and Purity Control of HPHT Nanodiamonds down to 1 nm. *Journal of Physical Chemistry C*, **2015**, 119, 27708-27720	3.8	112
146	Direct measurement of the deep defect density in thin amorphous silicon films with the absolute constant photocurrent method. *Journal of Applied Physics*, **1995**, 78, 6203-6210	2.5	75
145	Microcrystalline silicon thin films studied by atomic force microscopy with electrical current detection. *Journal of Applied Physics*, **2002**, 92, 587-593	2.5	70
144	Passivating electron contact based on highly crystalline nanostructured silicon oxide layers for silicon solar cells. *Solar Energy Materials and Solar Cells*, **2016**, 158, 2-10	6.4	68
143	Local characterization of electronic transport in microcrystalline silicon thin films with submicron resolution. *Applied Physics Letters*, **1999**, 74, 1475-1477	3.4	68
142	Ultrafast carrier dynamics in microcrystalline silicon probed by time-resolved terahertz spectroscopy. *Physical Review B*, **2009**, 79,	3.3	61
141	Basic features of transport in microcrystalline silicon. *Solar Energy Materials and Solar Cells*, **2003**, 78, 493-512	6.4	54
140	Characterization of mixed phase silicon by Raman spectroscopy. *Journal of Non-Crystalline Solids*, **2006**, 352, 1209-1212	3.9	43
139	Gold Micrometer Crystals Modified with Carboranethiol Derivatives. *Journal of Physical Chemistry C*, **2008**, 112, 14446-14455	3.8	42
138	Model of transport in microcrystalline silicon. *Journal of Non-Crystalline Solids*, **2002**, 299-302, 355-359	3.9	38
137	Experimental quantification of useful and parasitic absorption of light in plasmon-enhanced thin silicon films for solar cells application. *Scientific Reports*, **2016**, 6, 22481	4.9	37
136	Transport study of self-supporting porous silicon. *Applied Physics Letters*, **1995**, 66, 1098-1100	3.4	36
135	Crystallinity of the mixed phase silicon thin films by Raman spectroscopy. *Journal of Non-Crystalline Solids*, **2008**, 354, 2253-2257	3.9	34
134	Characterization of grain growth, nature and role of grain boundaries in microcrystalline silicon review of typical features. *Thin Solid Films*, **2006**, 501, 107-112	2.2	29

133	Model of electronic transport in microcrystalline silicon and its use for prediction of device performance. *Journal of Non-Crystalline Solids*, **2004**, 338-340, 303-309	3.9	29
132	Role of grains in protocrystalline silicon layers grown at very low substrate temperatures and studied by atomic force microscopy. *Journal of Non-Crystalline Solids*, **2002**, 299-302, 767-771	3.9	29
131	Transport anisotropy in microcrystalline silicon studied by measurement of ambipolar diffusion length. *Journal of Applied Physics*, **2001**, 89, 1800	2.5	29
130	Effect of hydrogen passivation on polycrystalline silicon thin films. *Thin Solid Films*, **2005**, 487, 152-156	2.2	27
129	Light emitting silicon, recent progress. *Journal of Non-Crystalline Solids*, **1996**, 198-200, 857-862	3.9	27
128	Detailed structural study of low temperature mixed-phase Si films by X-TEM and ambient conductive AFM. *Journal of Non-Crystalline Solids*, **2006**, 352, 1011-1015	3.9	25
127	Characterization of carbon nitride films prepared by laser reactive ablation deposition. *Journal of Electron Spectroscopy and Related Phenomena*, **1995**, 76, 747-752	1.7	24
126	On the transport properties of microcrystalline silicon. *Journal of Non-Crystalline Solids*, **1998**, 227-230, 1006-1010	3.9	23
125	The physics and technological aspects of the transition from amorphous to microcrystalline and polycrystalline silicon. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 1097-1114		23
124	Characterization of the mechanical properties of qPlus sensors. *Beilstein Journal of Nanotechnology* , **2013**, 4, 1-9	3	21
123	Local photoconductivity of microcrystalline silicon thin films measured by conductive atomic force microscopy. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 373-375	2.5	21
122	Synthesis, structure, and opto-electronic properties of organic-based nanoscale heterojunctions. *Nanoscale Research Letters*, **2011**, 6, 238	5	21
121	Surface morphology of spin-coated As□□e chalcogenide thin films. *Journal of Non-Crystalline Solids*, **2007**, 353, 1437-1440	3.9	21
120	Charge transport in microcrystalline Si □he specific features. *Solar Energy Materials and Solar Cells*, **2001**, 66, 61-71	6.4	20
119	Rapid crystallization of amorphous silicon at room temperature. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **2002**, 82, 1785-1793		20
118	Microcrystalline Silicon - Relation of Transport Properties and Microstructure. *Materials Research Society Symposia Proceedings*, **1999**, 557, 483		20
117	Charge transport in porous silicon: considerations for achievement of efficient electroluminescence. *Thin Solid Films*, **1996**, 276, 187-190	2.2	20
116	The structure and growth mechanism of Si nanoneedles prepared by plasma-enhanced chemical vapor deposition. *Nanotechnology*, **2010**, 21, 415604	3.4	19

115	Photoconductivity study of self-supporting porous silicon. *Thin Solid Films*, **1995**, 255, 269-271	2.2	19
114	On the effects of hydrogenation of thin film polycrystalline silicon: A key factor to improve heterojunction solar cells. *Solar Energy Materials and Solar Cells*, **2014**, 122, 31-39	6.4	17
113	Microcrystalline Silicon - Relation between Transport and Microstructure. *Solid State Phenomena*, **2001**, 80-81, 213-224	0.4	17
112	Amorphous/microcrystalline silicon superlattices: the chance to control isotropy and other transport properties. *Applied Physics Letters*, **2001**, 79, 2540-2542	3.4	17
111	New method of drift mobility evaluation in a-Si:H, basic idea and comparison with time-of-flight. *Journal of Non-Crystalline Solids*, **2000**, 266-269, 331-335	3.9	17
110	Optical and Electrical Properties of Undoped Microcrystalline Silicon Deposited by the VHF-GD with Different Dilutions of Silane in Hydrogen. *Materials Research Society Symposia Proceedings*, **1996**, 452, 761		17
109	Conductivity Mechanisms in Sb-Doped SnO2 Nanoparticle Assemblies: DC and Terahertz Regime. *Journal of Physical Chemistry C*, **2015**, 119, 19485-19495	3.8	16
108	Internal structure of mixed phase hydrogenated silicon thin films made at 39°C. *Applied Physics Letters*, **2006**, 89, 051922	3.4	16
107	Hydrogen and nitrogen bonding in silicon nitride layers deposited by laser reactive ablation: Infrared and x-ray photoelectron study. *Applied Physics Letters*, **1995**, 67, 3269-3271	3.4	16
106	Comment on "Current routes in hydrogenated microcrystalline silicon". *Physical Review B*, **2010**, 81,	3.3	15
105	Correlation of atomic force microscopy detecting local conductivity and micro-Raman spectroscopy on polymer–fullerene composite films. *Physica Status Solidi - Rapid Research Letters*, **2007**, 1, 193-195	2.5	15
104	Microcrystalline silicon, grain boundaries and role of oxygen. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1444-1447	6.4	14
103	Conductive atomic force microscopy on carbon nanowalls. *Journal of Non-Crystalline Solids*, **2012**, 358, 2545-2547	3.9	13
102	Ultrasharp Si nanowires produced by plasma-enhanced chemical vapor deposition. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 37-39	2.5	13
101	Influence of combined AFM/current measurement on local electronic properties of silicon thin films. *Journal of Non-Crystalline Solids*, **2002**, 299-302, 360-364	3.9	13
100	Instabilities in electroluminescent porous silicon diodes. *Applied Physics Letters*, **1996**, 69, 833-835	3.4	13
99	Profilometry of thin films on rough substrates by Raman spectroscopy. *Scientific Reports*, **2016**, 6, 37859	4.9	13
98	Two Simple Classroom Demonstrations for Scanning Probe Microscopy Based on a Macroscopic Analogy. *Journal of Chemical Education*, **2013**, 90, 361-363	2.4	12

97	Temperature induced structural rearrangements of Ag/a-C:H composite films and their dc electrical conduction. *Vacuum*, **1990**, 40, 377-380	3.7	12
96	Correlative microscopy of radial junction nanowire solar cells using nanoindent position markers. *Solar Energy Materials and Solar Cells*, **2015**, 135, 106-112	6.4	11
95	Microscopic study of the H2O vapor treatment of the silicon grain boundaries. *Journal of Non-Crystalline Solids*, **2008**, 354, 2310-2313	3.9	11
94	Defects generation by hydrogen passivation of polycrystalline silicon thin films. *Solar Energy*, **2006**, 80, 653-657	6.8	11
93	Microscopic Aspects Of Charge Transport In Hydrogenated Microcrystalline Silicon. *Materials Research Society Symposia Proceedings*, **2001**, 664, 1611		11
92	Precise measurement of the deep defects and surface states in a-Si:H films by absolute CPM. *Journal of Non-Crystalline Solids*, **1996**, 198-200, 304-308	3.9	11
91	Fabrication of SnS quantum dots for solar-cell applications: Issues of capping and doping. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 1309-1321	1.3	10
90	Light trapping in thin-film solar cells measured by Raman spectroscopy. *Applied Physics Letters*, **2014**, 105, 111106	3.4	10
89	Transport properties of microcrystalline silicon, prepared at high growth rate. *Journal of Non-Crystalline Solids*, **2006**, 352, 1097-1100	3.9	10
88	Electric and Photoelectric Properties of High Porosity Silicon. *Physica Status Solidi (B): Basic Research*, **1995**, 190, 27-33	1.3	10
87	Microstructure and optical properties of gold - doped plasma polymerized halocarbons. *Vacuum*, **1989**, 39, 19-22	3.7	10
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85	Modulated surface of single-layer graphene controls cell behavior. *Carbon*, **2014**, 72, 207-214	10.4	9
84	Electrical properties of carbon nanowall films. *Journal of Non-Crystalline Solids*, **2012**, 358, 2548-2551	3.9	9
83	Conductivity mapping of nanoparticles by torsional resonance tunneling atomic force microscopy. *Applied Physics Letters*, **2012**, 101, 083107	3.4	9
82	Spatially localized current-induced crystallization of amorphous silicon films. *Journal of Non-Crystalline Solids*, **2008**, 354, 2305-2309	3.9	9
81	Annealing in water vapor as a new method for improvement of silicon thin film properties. *Journal of Non-Crystalline Solids*, **2006**, 352, 955-958	3.9	9
80	Importance of the transport isotropy in □-Si:H thin films for solar cells deposited at low substrate temperatures. *Journal of Non-Crystalline Solids*, **2002**, 299-302, 395-399	3.9	9

79	Sculpturing graphene wrinkle patterns into compliant substrates. *Carbon*, **2019**, 146, 772-778	10.4	9
78	Photovoltaic characterization of graphene/silicon Schottky junctions from local and macroscopic perspectives. *Chemical Physics Letters*, **2017**, 676, 82-88	2.5	8
77	Time-resolved opto-electronic properties of poly(3-hexylthiophene-2,5-diyl): Fullerene heterostructures detected by Kelvin force microscopy. *Thin Solid Films*, **2010**, 519, 836-840	2.2	8
76	Relation of nanoscale and macroscopic properties of mixed-phase silicon thin films. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 582-586	1.6	8
75	Photogenerated carriers in □-Si:H/a-Si:H multi-layers. *Journal of Non-Crystalline Solids*, **2004**, 338-340, 353-356	3.9	8
74	Patterning of hydrogenated microcrystalline silicon growth by magnetic field. *Applied Physics Letters*, **2005**, 87, 011901	3.4	8
73	Surface and bulk light scattering in microcrystalline silicon for solar cells. *Journal of Non-Crystalline Solids*, **2000**, 271, 152-156	3.9	8
72	Adsorption of oriented carborane dipoles on a silver surface. *Physica Status Solidi (B): Basic Research*, **2016**, 253, 591-600	1.3	8
71	Direct Imaging of Dopant Distribution in Polycrystalline ZnO Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 7241-7248	9.5	7
70	Investigating inhomogeneous electronic properties of radial junction solar cells using correlative microscopy. *Japanese Journal of Applied Physics*, **2015**, 54, 08KA08	1.4	7
69	Impact of Cation Multiplicity on Halide Perovskite Defect Densities and Solar Cell Voltages. *Journal of Physical Chemistry C*, **2020**, 124, 27333-27339	3.8	7
68	Photo-conductivity and Hall mobility of holes at polypyrrole□diamond interface. *Diamond and Related Materials*, **2010**, 19, 174-177	3.5	7
67	Some controversial points related to transport in microcrystalline silicon. *Philosophical Magazine*, **2009**, 89, 2557-2571	1.6	7
66	Characterization of Laser Patterned a-Si:H Thin Films by Combined AFM/Local Current Measurements. *Physica Status Solidi A*, **1998**, 170, R1-R2		7
65	A simple tool for quality evaluation of the microcrystalline silicon prepared at high growth rate. *Thin Solid Films*, **2008**, 516, 4966-4969	2.2	7
64	Hydrogenation of polycrystalline silicon thin films. *Thin Solid Films*, **2006**, 501, 144-148	2.2	7
63	Formation of microcrystalline silicon at low temperatures and role of hydrogen. *Journal of Non-Crystalline Solids*, **2004**, 338-340, 287-290	3.9	7
62	Local electronic transport in microcrystalline silicon observed by combined atomic force microscopy. *Journal of Non-Crystalline Solids*, **2000**, 266-269, 309-314	3.9	7

61	Comparative study of catalyst-induced doping and metal incorporation in silicon nanowires. *Applied Physics Letters*, **2019**, 114, 132103	3.4	6
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57	Anisotropic carrier transport in preferentially oriented polycrystalline silicon films fabricated by very-high-frequency plasma enhanced chemical vapor deposition using fluorinated source gas. *Journal of Non-Crystalline Solids*, **2000**, 266-269, 341-346	3.9	6
56	Role of the tip induced local anodic oxidation in the conductive atomic force microscopy of mixed phase silicon thin films. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2010**, 7, NA-NA		5
55	Mapping of mechanical stress in silicon thin films on silicon cantilevers by Raman microspectroscopy. *Journal of Non-Crystalline Solids*, **2008**, 354, 2235-2237	3.9	5
54	Surface photovoltage measurements in □-Si:H: Manifestation of the bottom space charge region. *Journal of Applied Physics*, **2002**, 92, 2323-2329	2.5	5
53	A new approach to surface photovoltage measurements on hydrogenated microcrystalline silicon layers. *Philosophical Magazine Letters*, **2001**, 81, 405-410	1	5
52	Comments on space-charge-limited time-of-flight measurements in post-transit mode, applied to a-Si:H based solar cells. *Journal of Non-Crystalline Solids*, **1996**, 198-200, 190-193	3.9	5
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50	Nanoimprint-textured Glass Superstrates for Light Trapping in Crystalline Silicon thin-film Solar Cells. *Energy Procedia*, **2015**, 84, 118-126	2.3	4
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48	Microcrystalline silicon prepared at magnetic field modified nucleation. *Journal of Non-Crystalline Solids*, **2006**, 352, 901-905	3.9	4
47	Silicon thin films deposited at very low substrate temperatures. *Thin Solid Films*, **2003**, 442, 163-166	2.2	4
46	Detection of bottom depletion layer and its influence on surface photovoltage measurement in □-Si:H. *Thin Solid Films*, **2001**, 383, 271-273	2.2	4
45	Metal-doped hard carbon films. *International Journal of Electronics*, **1994**, 76, 937-940	1.2	4
44	Local Photovoltaic Properties of Graphene□ilicon Heterojunctions. *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1800305	1.3	4

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42	Position measurement in standing wave interferometer for metrology of length **2011**,		3
41	Thin nanocomposite films of phthalocyanines and metals. *Vacuum*, **1998**, 50, 191-194	3.7	3
40	Light-emitting Si prepared by laser annealing of a-Si:H. *Thin Solid Films*, **1995**, 255, 302-304	2.2	3
39	Ion cluster beam deposition of phthalocyanine films. *International Journal of Electronics*, **1992**, 73, 1051-1053	1.2	3
38	Thin films prepared by simultaneous deposition of copper and free-base phthalocyanine. *European Physical Journal D*, **1993**, 43, 905-909		3
37	Plasma polymerized PVCa and composite Au/PVCa films and their physical properties This paper was presented at the Second International Seminar on the Electronic Properties of Metal/Non-metal Microsystems, held at Ti, Czechoslovakia, 18-22 September 1989, but missed the deadline for publication in the July 1990 Special Issue of the International Journal of	1.2	3
36	Passivating contacts for silicon solar cells with 800 °C stability based on tunnel-oxide and highly crystalline thin silicon layer **2016**,		3
35	Phosphate content influence on structural, spectroscopic, and lasing properties of Er,Yb-doped potassium-lanthanum phosphate glasses. *Optical Engineering*, **2016**, 55, 047102	1.1	3
34	Role of a-Si:H in lateral growth of crystalline silicon nanowires using Pb and In catalysts. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 1821-1825	1.6	2
33	Optoelectronic performance of poly(p-phenylenevinylene)-based heterostructures evaluated by scanning probe techniques. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2828-2831	1.3	2
32	Crystallographic properties of grain size-controlled polycrystalline silicon thin films deposited on alumina substrate. *Journal of Crystal Growth*, **2009**, 311, 789-793	1.6	2
31	Characterization of hydrogen contained in passivated poly-Si and microcrystalline-Si by ERDA technique. *Surface and Interface Analysis*, **2006**, 38, 819-822	1.5	2
30	Nucleation and growth of metal-catalyzed silicon nanowires under plasma. *Nanotechnology*, **2020**, 31, 225601	3.4	1
29	Transferless Inverted Graphene/Silicon Heterostructures Prepared by Plasma-Enhanced Chemical Vapor Deposition of Amorphous Silicon on CVD Graphene. *Nanomaterials*, **2020**, 10,	5.4	1
28	Passivation effect of water vapour on thin film polycrystalline Si solar cells. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 1969-1975	1.6	1
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25	Nanostructural composites of phthalocyanine and metals. *European Physical Journal D*, **1997**, 47, 461-465		1
24	Reexamination of high drift mobility a-Si:H. *Journal of Non-Crystalline Solids*, **1998**, 227-230, 229-232	3.9	1
23	Properties of amorphous carbon films characterized by laser desorption time of flight mass spectroscopy. *Journal of Non-Crystalline Solids*, **1998**, 227-230, 632-635	3.9	1
22	Electroluminescent properties of a-SiOx:H alloys. *Journal of Non-Crystalline Solids*, **1998**, 227-230, 1160-1163	3.9	1
21	A simple quality factor for characterization of thin silicon films. *Journal of Non-Crystalline Solids*, **2008**, 354, 2227-2230	3.9	1
20	Controlled growth of nanocrystalline silicon on permalloy micro-patterns. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 797-800	2.6	1
19	Relation between Electronic Properties and Density of Crystalline Agglomerates in Microcrystalline Silicon. *Materials Research Society Symposia Proceedings*, **2007**, 989, 1		1
18	Properties of Microcrystalline Silicon Prepared at High Growth Rate **2006**,		1
17	Tuning of the gold work function by carborane films studied using density functional theory. *Physical Chemistry Chemical Physics*, **2019**, 21, 6178-6185	3.6	1
16	Nanoscale Study of the Hole-Selective Passivating Contacts with High Thermal Budget Using C-AFM Tomography. *ACS Applied Materials & Interfaces*, **2021**, 13, 9994-10000	9.5	0
15	ANNEALING OF POLYCRYSTALLINE THIN FILM SILICON SOLAR CELLS IN WATER VAPOUR AT SUB-ATMOSPHERIC PRESSURES. *Acta Polytechnica*, **2014**, 54, 341-347	1	
14	Displacement Interferometry within a Passive Fabry-Perot Cavity **2014**, 891-894		
13	Conductivity measurement of individual SnS nanoparticles by Peak Force AFM. *Materials Research Society Symposia Proceedings*, **2013**, 1557, 1		
12	Decomposition of Mixed Phase Silicon Raman Spectra. *Materials Research Society Symposia Proceedings*, **2009**, 1153, 1		
11	Microscopic Characterizations of Nanostructured Silicon Thin Films for Solar Cells. *Materials Research Society Symposia Proceedings*, **2011**, 1321, 313		
10	Short-term degradation of porous silicon light-emitting diodes. *Journal of Luminescence*, **1997**, 72-74, 992-993	3.8	
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8	C-AFM and X-TEM. *Imaging & Microscopy*, **2008**, 10, 30-32		

7	Structure of mixed-phase Si films studied by C-AFM and X-TEM. *Journal of Physics: Conference Series* , **2007**, 61, 790-794	0.3
6	Thin silicon films deposited at low substrate temperatures studied by surface photovoltage technique. *Thin Solid Films*, **2004**, 451-452, 408-412	2.2
5	Growth defects in WC:H layers for tribological applications. *Vacuum*, **2020**, 178, 109372	3.7
4	Thin Film Polycrystalline Silicon Solar Cells Studied by Transient Terahertz Probe Spectroscopy. *Energy Procedia*, **2016**, 102, 19-26	2.3
3	Doping of the hydrogen-passivated Si(100) electronic structure through carborane adsorption studied using density functional theory. *Physical Chemistry Chemical Physics*, **2021**, 23, 20379-20387	3.6
2	Local Photovoltaic Properties of GrapheneSilicon Heterojunctions (Phys. Status Solidi B 12/2018). *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1870144	1.3
1	Local Current Measurements **2018**, 265-301	