

Peter Peumans

List of Publications by Year in descending order

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48
papers

13,377
citations

172386

29
h-index

265120

42
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49
all docs

49
docs citations

49
times ranked

14290
citing authors

#	ARTICLE	IF	CITATIONS
1	Small molecular weight organic thin-film photodetectors and solar cells. Journal of Applied Physics, 2003, 93, 3693-3723.	1.1	2,504
2	Scalable Coating and Properties of Transparent, Flexible, Silver Nanowire Electrodes. ACS Nano, 2010, 4, 2955-2963.	7.3	1,906
3	Solution-Processed Metal Nanowire Mesh Transparent Electrodes. Nano Letters, 2008, 8, 689-692.	4.5	1,713
4	Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films. Nature, 2003, 425, 158-162.	13.7	1,229
5	Organic Light-Emitting Diodes on Solution-Processed Graphene Transparent Electrodes. ACS Nano, 2010, 4, 43-48.	7.3	908
6	Organic solar cells with solution-processed graphene transparent electrodes. Applied Physics Letters, 2008, 92, .	1.5	856
7	Long-range absorption enhancement in organic tandem thin-film solar cells containing silver nanoclusters. Journal of Applied Physics, 2004, 96, 7519-7526.	1.1	569
8	Smooth Nanowire/Polymer Composite Transparent Electrodes. Advanced Materials, 2011, 23, 2905-2910.	11.1	531
9	Separation of geminate charge-pairs at donor-acceptor interfaces in disordered solids. Chemical Physics Letters, 2004, 398, 27-31.	1.2	271
10	Fully Solution-Processed Inverted Polymer Solar Cells with Laminated Nanowire Electrodes. ACS Nano, 2010, 4, 30-34.	7.3	269
11	Semitransparent Organic Photovoltaic Cells with Laminated Top Electrode. Nano Letters, 2010, 10, 1276-1279.	4.5	252
12	Color in the Corners: ITO-Free White OLEDs with Angular Color Stability. Advanced Materials, 2013, 25, 4006-4013.	11.1	241
13	Design of Transparent Anodes for Resonant Cavity Enhanced Light Harvesting in Organic Solar Cells. Advanced Materials, 2012, 24, 728-732.	11.1	216
14	Enhancement of optical absorption in thin-film organic solar cells through the excitation of plasmonic modes in metallic gratings. Applied Physics Letters, 2010, 96, .	1.5	214
15	Optimal light trapping in ultra-thin photonic crystal crystalline silicon solar cells. Optics Express, 2010, 18, 5691.	1.7	204
16	The origin of enhanced optical absorption in solar cells with metal nanoparticles embedded in the active layer. Optics Express, 2010, 18, 10078.	1.7	172
17	An effective light trapping configuration for thin-film solar cells. Applied Physics Letters, 2007, 91, .	1.5	171
18	Design of wide-angle solar-selective absorbers using aperiodic metal-dielectric stacks. Optics Express, 2009, 17, 22800.	1.7	170

#	ARTICLE	IF	CITATIONS
19	Broadband optical absorption enhancement through coherent light trapping in thin-film photovoltaic cells. <i>Optics Express</i> , 2008, 16, 5385.	1.7	120
20	High performance solar-selective absorbers using coated sub-wavelength gratings. <i>Optics Express</i> , 2010, 18, 5525.	1.7	110
21	Effect of molecular packing on the exciton diffusion length in organic solar cells. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	105
22	Curving monolithic silicon for nonplanar focal plane array applications. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	98
23	Coherent light trapping in thin-film photovoltaics. <i>MRS Bulletin</i> , 2011, 36, 453-460.	1.7	84
24	Micropatterning of small molecular weight organic semiconductor thin films using organic vapor phase deposition. <i>Journal of Applied Physics</i> , 2003, 93, 4005-4016.	1.1	74
25	Laminating solution-processed silver nanowire mesh electrodes onto solid-state dye-sensitized solar cells. <i>Organic Electronics</i> , 2011, 12, 875-879.	1.4	67
26	Enhanced outcoupling from organic light-emitting diodes using aperiodic dielectric mirrors. <i>Applied Physics Letters</i> , 2007, 90, 241112.	1.5	42
27	Direct mask-free patterning of molecular organic semiconductors using organic vapor jet printing. <i>Journal of Applied Physics</i> , 2004, 96, 4500-4507.	1.1	34
28	Solution processed zinc oxide nanopillar/silver nanowire transparent network films with highly tunable light scattering properties. <i>Nanoscale</i> , 2013, 5, 4400.	2.8	34
29	Ultrathin crystalline-silicon solar cells with embedded photonic crystals. <i>Applied Physics Letters</i> , 2012, 100, 053113.	1.5	26
30	Geometric light trapping with a V-trap for efficient organic solar cells. <i>Optics Express</i> , 2013, 21, A305.	1.7	21
31	An Approach to Cost-Effective, Robust, Large-Area Electronics using Monolithic Silicon. , 2007, , .		18
32	Title: Using Alignment and 2D Network Simulations to Study Charge Transport Through Doped ZnO Nanowire Thin Film Electrodes. <i>Advanced Functional Materials</i> , 2011, 21, 4691-4697.	7.8	17
33	Functionalization of stretchable networks with sensors and switches for composite materials. <i>Structural Health Monitoring</i> , 2018, 17, 598-623.	4.3	16
34	The effects of optical interference on exciton diffusion length measurements using photocurrent spectroscopy. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	14
35	Micro-fabricated, expandable temperature sensor network for macro-scale deployment in composite structures. , 2011, , .		12
36	A Super Stretchable Organic Thin-Film Diodes Network That Can Be Embedded Into Carbon Fiber Composite Materials for Sensor Network Applications. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 524-532.	1.7	10

#	ARTICLE	IF	CITATIONS
37	Resonant cavity enhanced light harvesting in flexible thin-film organic solar cells. Optics Letters, 2013, 38, 1431.	1.7	9
38	A curvable silicon retinal implant. , 2009, , .		6
39	Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films. , 2010, , 94-98.		6
40	Design of non-periodic dielectric stacks for tailoring the emission of organic lighting-emitting diodes. Optics Express, 2007, 15, 9715.	1.7	5
41	Optimal light trapping in ultra-thin photonic crystal crystalline silicon solar cells. Proceedings of SPIE, 2010, , .	0.8	4
42	Transparent Electrodes: Smooth Nanowire/Polymer Composite Transparent Electrodes (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	11.1	3
43	Designing a metallic nanoconcentrator for a lateral multijunction photovoltaic cell. Journal of Applied Physics, 2011, 109, 114301.	1.1	3
44	White OLEDs: Color in the Corners: ITOâ€Free White OLEDs with Angular Color Stability (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	11.1	3
45	Optical absorption enhancement in thin-film organic photovoltaic solar cells through the excitation of plasmonic modes in metallic gratings. , 2010, , .		2
46	Fully solution-processed organic solar cells on metal foil substrates. Proceedings of SPIE, 2009, , .	0.8	1
47	Transparent and tandem solar cells using solution-processed metal nanowire transparent electrodes. , 2009, , .		1
48	Small molecular weight organic thin-film photodetectors and solar cells. , 0, .		1