Lucimara Stolz Roman

List of Publications by Year
in descending order

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135	4,820	147566	102304
papers	citations	31 h-index	66 g-index

136	136	136	5779
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organic Photovoltaic Solar Panels (OPV) Applied to a Tubelike Bus Station. Brazilian Journal of Physics, 2022, 52, 1.	0.7	2
2	Morphology and energy transfer study between conjugated polymers thin films: experimental and theoretical approaches. Journal of Physics Condensed Matter, 2022, 34, 214010.	0.7	1
3	On the energy gap determination of organic optoelectronic materials: the case of porphyrin derivatives. Materials Advances, 2022, 3, 1791-1803.	2.6	21
4	Binding Energy of Triplet Excitons in Nonfullerene Acceptors: The Effects of Fluorination and Chlorination. Journal of Physical Chemistry A, 2022, 126, 1393-1402.	1.1	6
5	Conductive ink based on PEDOT nanoparticles dispersed in water without organic solvents, passivant agents or metallic residues. Synthetic Metals, 2021, 272, 116657.	2.1	7
6	Kinetic Modeling of the Electric Field Dependent Exciton Quenching at the Donorâ€“Acceptor Interface. Journal of Physical Chemistry C, 2021, 125, 4436-4448.	1.5	8
7	Morphology, Photoexcitation Dynamics and Stability of Water-Dispersed Nanoparticle Films based on Semiconducting Copolymer. Thin Solid Films, 2021, 721, 138536.	0.8	2
8	The role of carbon nanotubes on the sensitivity of composites with polyaniline for ammonia sensors. Carbon Trends, 2021, 3, 100026.	1.4	9
9	Non-radiative energy transfer in aqueously dispersed polymeric nanoparticles for photovoltaic applications. Synthetic Metals, 2021, 275, 116740.	2.1	5
10	Conditions for efficient charge generation preceded by energy transfer process in non-fullerene organic solar cells. Journal of Materials Chemistry A, 2021, 9, 27568-27585.	5.2	16
11	Conformational and Electron Dynamics Changes Induced by Cooling Treatment on GO:PEDOT:PSS Transparent Electrodes. Journal of Physical Chemistry C, 2020, 124, 26640-26647.	1.5	4
12	Correlation between structural and optical characteristics of conjugated copolymers differing by a Si bridge atom. Physical Chemistry Chemical Physics, 2020, 22, 19923-19931.	1.3	6
13	Energy Transfer in Aqueously Dispersed Organic Semiconductor Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 27946-27953.	1.5	5
14	Understanding the effect of solvent additive in polymeric thin film: turning a bilayer into a bulk heterojunction-like photovoltaic device. Journal Physics D: Applied Physics, 2020, 53, 365101.	1.3	2
15	Comparing C60 and C70 as acceptor in organic solar cells: Influence of the electronic structure and aggregation size on the photovoltaic characteristics. Thin Solid Films, 2020, 697, 137827.	0.8	28
16	Effects of non-halogenated solvent on the main properties of a solution-processed polymeric thin film for photovoltaic applications: a computational study. Physical Chemistry Chemical Physics, 2020, 22, 9693-9702.	1.3	6
17	Kinetic model for photoluminescence quenching by selective excitation of D/A blends: implications for charge separation in fullerene and non-fullerene organic solar cells. Journal of Materials Chemistry C, 2020, 8, 8755-8769.	2.7	16
18	Clean and Renewable Energy, Healthy Organic Electronics. Revista Virtual De Quimica, 2020, 12, 583-597.	0.1	1

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19	Femtosecond and Attosecond Electron Transfer Dynamics of Semiconductors Probed by the Core-Hole Clock Spectroscopy. Topics in Catalysis, 2019, 62, 1004-1010.	1.3	6
20	Graphene oxide as a surfactant in the nanostructuring of a conduction polymer: Effect on the electronic structure, chain orientation, and charge transfer dynamics. Organic Electronics, 2019, 75, 105440.	1.4	6
21	Enhancement of conductivity and transmittance of graphene oxide/PEDOT:PSS electrodes and the evaluation of charge transfer dynamics. Journal of Applied Physics, 2019, 126, .	1.1	15
22	Molecular orientation and femtosecond charge transfer dynamics in transparent and conductive electrodes based on graphene oxide and PEDOT:PSS composites. Physical Chemistry Chemical Physics, 2019, 21, 736-743.	1.3	15
23	Organic Photovoltaic Panels for Bus Rapid Transit Stations in Curitiba â€“ A Viability Study. , 2019, , .		0
24	Nonradiative Energy Transfer between Porphyrin and Copolymer in Films Processed by Organic Solvent and Water-Dispersible Nanoparticles with Photovoltaic Applications. Journal of Physical Chemistry C, 2018, 122, 5796-5804.	1.5	10
25	Photoanode for Aqueous Dyeâ€Sensitized Solar Cells based on a Novel Multicomponent Thin Film. ChemSusChem, 2018, 11, 1238-1245.	3.6	16
26	Ultrafast interface charge transfer dynamics on P3HT/MWCNT nanocomposites probed by resonant Auger spectroscopy. RSC Advances, 2018, 8, 26416-26422.	1.7	12
27	Charge Transfer Dynamics and Device Performance of Environmentally Friendly Processed Nonfullerene Organic Solar Cells. ACS Applied Energy Materials, 2018, 1, 4776-4785.	2.5	28
28	Doping effect on self-assembled films of polyaniline and carbon nanotube applied as ammonia gas sensor. Sensors and Actuators B: Chemical, 2017, 245, 25-33.	4.0	136
29	Electrical and morphological study of carbon nanotubes/polyaniline composite films: A model to explain different tunneling regimes induced by a vertical electric field. Thin Solid Films, 2017, 636, 314-324.	0.8	11
30	Additive Driven Increase in Donorâ€“Acceptor Copolymer Coupling Studied by X-ray Resonant Photoemission. Journal of Physical Chemistry C, 2017, 121, 25187-25194.	1.5	9
31	Conformational Change on a Bithiophene-Based Copolymer Induced by Additive Treatment: Application in Organic Photovoltaics. Journal of Physical Chemistry C, 2017, 121, 16035-16044.	1.5	18
32	Thermally induced anchoring of fullerene in copolymers with Si-bridging atom: Spectroscopic evidences. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 171, 376-382.	2.0	6
33	Electronic and structural properties in thermally annealed PSiF-DBT:PC71BM blends for organic photovoltaics. Thin Solid Films, 2016, 615, 165-170.	0.8	11
34	Interplay among electronic characteristics, morphology and device efficiency in three fluorene alternated copolymers. Synthetic Metals, 2016, 219, 60-66.	2.1	1
35	Water based, solution-processable, transparent and flexible graphene oxide composite as electrodes in organic solar cell application. Journal Physics D: Applied Physics, 2016, 49, 105106.	1.3	33
36	The total chemical synthesis of polymer/graphene nanocomposite films. Chemical Communications, 2016, 52, 1629-1632.	2.2	33

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37	Femtosecond Electron Delocalization in Polymer:Fullerene Blend Films. Journal of Physics: Conference Series, 2015, 635, 122003.	0.3	1
38	Charge transport model for photovoltaic devices based on printed polymer: Fullerene nanoparticles. Solar Energy Materials and Solar Cells, 2015, 141, 171-177.	3.0	34
39	Naphthalimide-derivative with blue electroluminescence for OLED applications. Journal of Taibah University for Science, 2015, 9, 579-585.	1.1	9
40	The effect of thermal annealing on the charge transfer dynamics of a donorâ€“acceptor copolymer and fullerene: F8T2 and F8T2:PCBM. Physical Chemistry Chemical Physics, 2015, 17, 11244-11251.	1.3	12
41	Annealing effect on donor-acceptor interface and its impact on the performance of organic photovoltaic devices based on PSiF-DBT copolymer and C60. Applied Physics Letters, 2015, 106, 133301.	1.5	12
42	Electronic structure, molecular orientation, charge transfer dynamics and solar cells performance in donor/acceptor copolymers and fullerene: Experimental and theoretical approaches. Journal of Applied Physics, 2014, 115, 134901.	1.1	36
43	Resistive switching in iron-oxide-filled carbon nanotubes. Nanoscale, 2014, 6, 378-384.	2.8	17
44	Electrical Properties of Self-Assembled Films of Polyaniline/Carbon Nanotubes Composites. Journal of Physical Chemistry C, 2014, 118, 24811-24818.	1.5	29
45	Worldwide outdoor round robin study of organic photovoltaic devices and modules. Solar Energy Materials and Solar Cells, 2014, 130, 281-290.	3.0	23
46	Charge Transfer Dynamics and Molecular Orientation Probed by Core Electron Spectroscopies on thermal-annealed Polysilafluorene Derivative: Experimental and Theoretical Approaches. Journal of Physical Chemistry C, 2014, 118, 23863-23873.	1.5	30
47	Correlations between the number of thiophene units and the photovoltaic behavior of fluoreneâ€“oligothiophene copolymers. European Polymer Journal, 2013, 49, 3539-3547.	2.6	6
48	Femtosecond Electron Delocalization in Poly(thiophene) Probed by Resonant Auger Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 8208-8213.	1.5	30
49	Interactions of iron-oxide filled carbon nanotubes with gas molecules. Physical Chemistry Chemical Physics, 2013, 15, 14340.	1.3	2
50	ITOâ€Free and Flexible Organic Photovoltaic Device Based on High Transparent and Conductive Polyaniline/Carbon Nanotube Thin Films. Advanced Functional Materials, 2013, 23, 1490-1499.	7.8	174
51	Bilayer and bulk heterojunction solar cells with functional poly(2,2â€²-bithiophene) films electrochemically deposited from aqueous emulsion. Synthetic Metals, 2013, 170, 63-68.	2.1	19
52	Modification of PEDOT:PSS anode buffer layer with HFA for flexible polymer solar cells. Chemical Physics Letters, 2013, 572, 73-77.	1.2	16
53	The interplay of electronic structure, molecular orientation and charge transport in organic semiconductors: Poly(thiophene) and poly(bithiophene). Organic Electronics, 2013, 14, 2980-2986.	1.4	23
54	The current-voltage characteristics of polymer/C60 diodes in the dark: A direct way to assess photovoltaic devices efficiency parameters. Applied Physics Letters, 2013, 103, 033304.	1.5	5

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55	Effect of native defects on the structural and magnetic properties of hematite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	1.1	19
56	Electron and Photon Stimulated Ion Desorption from Poly(thiophene). Journal of the Brazilian Chemical Society, 2013, , .	0.6	1
57	Effect of the Temperature of Annealing on the Performance of Fluorene and Bithiophene Copolymer in Bilayer Solar Cells. Materials Research Society Symposia Proceedings, 2012, 1390, 100.	0.1	2
58	Light emission and current rectification in a molecular device: Experiment and theory. Journal of Applied Physics, 2012, 112, 113108.	1.1	0
59	Synthesis and Solar Cell Application of New Alternating Donorâ€“Acceptor Copolymers Based on Variable Units of Fluorene, Thiophene, and Phenylene. Journal of Physical Chemistry C, 2012, 116, 18641-18648.	1.5	16
60	Preparation of porous titanium oxide films onto indium tin oxide for application in organic photovoltaic devices. Applied Surface Science, 2012, 258, 5375-5379.	3.1	5
61	Performance of fluorene and terthiophene copolymer in bilayer photovoltaic devices: The role of the polymer conformations. Organic Electronics, 2012, 13, 2716-2726.	1.4	15
62	Thickness Effect on F8T2/C60Bilayer Photovoltaic Devices. Journal of Nanotechnology, 2012, 2012, 1-5.	1.5	2
63	Self-assembled films of multi-wall carbon nanotubes used in gas sensors to increase the sensitivity limit for oxygen detection. Carbon, 2012, 50, 1953-1958.	5.4	51
64	Photoabsorption and desorption studies on thiophene-based polymers following sulphur K-shell excitation. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 265-269.	0.8	6
65	The role of the double peaked absorption spectrum in the efficiency of solar cells based on donorâ€“acceptorâ€“donor copolymers. Solar Energy Materials and Solar Cells, 2011, 95, 2287-2294.	3.0	33
66	Hole mobility effect in the efficiency of bilayer heterojunction polymer/C60 photovoltaic cells. Applied Physics Letters, 2011, 98, 253501.	1.5	23
67	Theoretical and experimental investigation into environment dependence and electric properties for volatile memory based on methyl-red dye thin film. Solid-State Electronics, 2010, 54, 1697-1700.	0.8	1
68	Electrical and optical properties of poly(2-dodecanoylsulfanyl-p-phenylenevnylene) and its application in electroluminescent devices. Journal of Materials Science: Materials in Electronics, 2010, 21, 1235-1239.	1.1	8
69	Polythiophene thin films electrochemically deposited on solâ€“gel based TiO2 for photovoltaic applications. Thin Solid Films, 2010, 519, 1511-1515.	0.8	7
70	Development of a Chemiresistor Sensor Based on Polymers-Dye Blend for Detection of Ethanol Vapor. Sensors, 2010, 10, 2812-2820.	2.1	22
71	Optical absorption of rutile SnO2 and TiO2. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2740-2742.	0.8	14
72	Polarization dependence of the optical response in SnO2 and the effects from heavily F doping. Thin Solid Films, 2009, 517, 6301-6304.	0.8	29

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73	Photoabsorption and desorption studies on poly-3-hexylthiophene/multi-walled carbon nanotube composite films. Surface Science, 2009, 603, 647-652.	0.8	13
74	Effect of conjugation length on photophysical properties of a conjugatedâ€“non-conjugated multiblock copolymer. Synthetic Metals, 2009, 159, 1975-1982.	2.1	18
75	Strong inter-conduction-band absorption in heavily fluorine doped tin oxide. Applied Surface Science, 2008, 255, 1874-1879.	3.1	38
76	Enhanced lifetime in porous silicon light-emitting diodes with fluorine doped tin oxide electrodes. Thin Solid Films, 2008, 517, 870-873.	0.8	35
77	Improving light harvesting in polymer photodetector devices through nanoindented metal mask films. Journal of Applied Physics, 2008, 104, 033714.	1.1	11
78	Evidence of fractal structure for charge transport in carbon-nanotube/conjugated-polymer composites. Europhysics Letters, 2007, 79, 47011.	0.7	8
79	Electrosprayed superhydrophobic PTFE: a non-contaminating surface. Journal Physics D: Applied Physics, 2007, 40, 7778-7781.	1.3	33
80	Organic photovoltaic devices based on polythiophene films electrodeposited on FTO substrates. Solar Energy Materials and Solar Cells, 2007, 91, 684-688.	3.0	55
81	Superhydrophobic electrosprayed PTFE. Surface and Coatings Technology, 2007, 202, 194-198.	2.2	114
82	Iron- and iron oxide-filled multi-walled carbon nanotubes: Electrical properties and memory devices. Chemical Physics Letters, 2007, 444, 304-308.	1.2	41
83	Structural complexity of disordered surfaces: Analyzing the porous silicon SFM patterns. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 666-673.	1.2	3
84	A Simple Two-Phase Route to Silver Nanoparticles/Polyaniline Structures. Journal of Physical Chemistry B, 2006, 110, 17063-17069.	1.2	99
85	Optical and morphological properties of porous diamond-like-carbon films deposited by magnetron sputtering. Journal of Non-Crystalline Solids, 2006, 352, 3734-3738.	1.5	2
86	Optical band-edge absorption of oxide compound SnO2. Applied Surface Science, 2006, 252, 5361-5364.	3.1	68
87	Carbon nanotubes based nanocomposites for photocurrent improvement. Applied Surface Science, 2006, 252, 5575-5578.	3.1	40
88	Modeling and gradient pattern analysis of irregular SFM structures of porous silicon. Microelectronics Journal, 2006, 37, 290-294.	1.1	6
89	Sulfonated polyaniline/poly(3-methylthiophene)-based photovoltaic devices.. Journal of Solid State Electrochemistry, 2006, 10, 24-27.	1.2	37
90	Morphology Dependence on Fluorine Doped Tin Oxide Film Thickness Studied with Atomic Force Microscopy. Microscopy and Microanalysis, 2005, 11, 118-121.	0.2	7

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91	Electrical aspects of photovoltaic devices based on bi-layer organic semiconducting materials. Microelectronics Journal, 2005, 36, 995-997.	1.1	6
92	Modification of the sheet resistance of ink jet printed polymer conducting films by changing the plastic substrate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 122, 231-235.	1.7	18
93	Photoacoustic investigations of optical absorption, photoluminescence, and thermal diffusivity of Porous Diamond-Like-Carbon films. European Physical Journal Special Topics, 2005, 125, 293-295.	0.2	0
94	Mechanical properties of polyhedral oligomeric silsesquioxane (POSS) thin films submitted to Si irradiation. Nuclear Instruments & Methods in Physics Research B, 2004, 218, 375-380.	0.6	11
95	An electrochemically synthesized sulfonated polyaniline layer for positive charge carrier injection improvement in conjugated polymer devices. Journal of Solid State Electrochemistry, 2004, 8, 118-121.	1.2	13
96	Photon stimulated ion desorption from poly(3-methylthiophene) following sulphur K-shell excitation. Surface Science, 2004, 560, 45-52.	0.8	24
97	Photovoltaics based on thin electrodeposited bilayers of poly(3-methylthiophene) and polypyrrole. Physica Status Solidi A, 2004, 201, 842-849.	1.7	6
98	Poly(3-methylthiophene)-based photovoltaic devices prepared onto tin-oxide/sulfonated-polyaniline electrodes. Electrochemistry Communications, 2004, 6, 357-360.	2.3	21
99	Modeling bilayer polymer/fullerene photovoltaic devices. Journal of Applied Physics, 2004, 96, 40-43.	1.1	24
100	Structural flyby characterization of nanoporosity. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, S277-S281.	0.8	2
101	Electrochemically deposited poly(3-methylthiophene) performance in single layer photovoltaic devices. European Physical Journal E, 2003, 12, 507-511.	0.7	21
102	Synthesis and characterization of poly(decyloxy-p-phenylenevinylene). Synthetic Metals, 2003, 135-136, 3-4.	2.1	3
103	Photovoltaic devices based on photo induced charge transfer in polythiophene: CN-PPV blends. Brazilian Journal of Physics, 2003, 33, 376-381.	0.7	7
104	Organic Photodiodes: From Diodes to Blends. Springer Series in Materials Science, 2003, , 249-272.	0.4	3
105	Space-charge-limited bipolar currents in polymer/C60 diodes. Journal of Applied Physics, 2002, 92, 5575-5577.	1.1	13
106	Quantum efficiency of exciton-to-charge generation in organic photovoltaic devices. Journal of Applied Physics, 2001, 89, 5564-5569.	1.1	69
107	Photodiodes made from poly(pyridopyrazine vinylene):polythiophene blends. Synthetic Metals, 2001, 119, 185-186.	2.1	17
108	Recent progress in thin film organic photodiodes. Synthetic Metals, 2001, 121, 1525-1528.	2.1	38

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109	Charge carrier mobility in substituted polythiophene-based diodes. Synthetic Metals, 2001, 125, 419-422.	2.1	33
110	Thermal and optical properties of porous silicon. Materials Research, 2001, 4, 23-26.	0.6	6
111	Modifying Interfaces to Semiconducting Polymers. , 2001, , .		0
112	Trapping Light in Polymer Photodiodes with Soft Embossed Gratings. Advanced Materials, 2000, 12, 189-195.	11.1	160
113	Patterning of Polymer Light-Emitting Diodes with Soft Lithography. Advanced Materials, 2000, 12, 269-273.	11.1	174
114	Excitation Transfer in Polymer Photodiodes for Enhanced Quantum Efficiency. Advanced Materials, 2000, 12, 1110-1114.	11.1	53
115	Characterization of asymmetric fragmentation patterns in SFM images of porous silicon. Solid State Communications, 2000, 113, 703-708.	0.9	13
116	Self organised polymer photodiodes for extended spectral coverage. Thin Solid Films, 2000, 363, 286-289.	0.8	14
117	The use of tin oxide thin films as a transparent electrode in PPV based light-emitting diodes. Thin Solid Films, 2000, 371, 201-206.	0.8	67
118	Photovoltaic cells with a conjugated polyelectrolyte. Synthetic Metals, 2000, 110, 133-140.	2.1	81
119	Polymer diodes with high rectification. Applied Physics Letters, 1999, 75, 3557-3559.	1.5	99
120	Multifunctional polythiophenes in photodiodes. Synthetic Metals, 1999, 102, 977-978.	2.1	14
121	Enhanced photo conversion efficiency utilizing interference inside organic heteroj unction photovoltaic devices. Synthetic Metals, 1999, 102, 1107.	2.1	9
122	Modeling photocurrent action spectra of photovoltaic devices based on organic thin films. Journal of Applied Physics, 1999, 86, 487-496.	1.1	1,424
123	High Quantum Efficiency Polythiophene. Advanced Materials, 1998, 10, 774-777.	11.1	200
124	PolÃmeros conjugados como camada ativa de diodos emissores de luz e fotodetectores. Polimeros, 1998, 8, 55-63.	0.2	5
125	High Quantum Efficiency Polythiophene. , 1998, 10, 774.		6
126	Electronic properties of poly(1,4-phenylene methylidynenitrilo-1,4-phenylene nitrilomethylidyne) (PPI). Synthetic Metals, 1997, 90, 147-151.	2.1	4

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127	Preparation and characterization of transparent conducting tin oxide thin film electrodes by chemical vapour deposition from reactive thermal evaporation of SnCl2. Materials Chemistry and Physics, 1997, 48, 263-267.	2.0	33
128	Photodiode performance and nanostructure of polythiophene/C60blends. Advanced Materials, 1997, 9, 1164-1168.	11.1	183
129	Determination of electroaffinity and ionization potential of conjugated polymers via Fowlerâ€“Nordheim tunneling measurements: Theoretical formulation and application to poly(pâ€phenylene vinylene). Journal of Chemical Physics, 1996, 105, 10614-10620.	1.2	34
130	Tin oxide as a transparent electrode material for light-emitting diodes fabricated with poly (p-phenylene vinylene). Bulletin of Materials Science, 1996, 19, 423-427.	0.8	10
131	Time-dependent structural modifications in tin oxide thin films under environmental conditions. Journal of Materials Science: Materials in Electronics, 1996, 7, 423.	1.1	1
132	The unstable behaviour of Ag/PPV charge injection contacts. Journal of Materials Science Letters, 1996, 15, 1307.	0.5	5
133	Polymer and polymer/metal interface characterization via Fowlerâ€“Nordheim tunneling measurements. Applied Physics Letters, 1996, 68, 3194-3196.	1.5	24
134	Space-Charge-Limited Bipolar Currents at High Fields in Polymer/C₆₀ Diodes: A Simple Model Description. Advanced Materials Research, 0, 747, 591-594.	0.3	0
135	Molecular Orientation and Femtosecond Electron Transfer Dynamics in Halogenated and Nonhalogenated, Eco-Friendly Processed PTB7-Th, ITIC, PTB7-Th:ITIC, and PTB7-Th:PCBM Films. Journal of Physical Chemistry C, 0, , .	1.5	0