

Robert Younts

List of Publications by Year in descending order

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36
papers

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citations

516710

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times ranked

1645
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#	ARTICLE	IF	CITATIONS
1	Effects of Cd Diffusion and Doping in High-Performance Perovskite Solar Cells Using CdS as Electron Transport Layer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16437-16445.	3.1	89
2	Efficient Generation of Long-Lived Triplet Excitons in 2D Hybrid Perovskite. <i>Advanced Materials</i> , 2017, 29, 1604278.	21.0	81
3	Impact of the photo-induced degradation of electron acceptors on the photophysics, charge transport and device performance of all-polymer and fullerene-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22170-22179.	10.3	71
4	Controlling Energy Levels and Blend Morphology for All-Polymer Solar Cells via Fluorination of a Naphthalene Diimide-Based Copolymer Acceptor. <i>Macromolecules</i> , 2016, 49, 6374-6383.	4.8	66
5	Room-Temperature Electron-Hole Liquid in Monolayer MoS ₂ . <i>ACS Nano</i> , 2019, 13, 10351-10358.	14.6	49
6	Polymer non-fullerene solar cells of vastly different efficiencies for minor side-chain modification: impact of charge transfer, carrier lifetime, morphology and mobility. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12484-12492.	10.3	43
7	More stable and more efficient alternatives of Z-907: carbazole-based amphiphilic Ru(<i>ii</i>) sensitizers for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 27078-27087.	2.8	41
8	Reversible Photoluminescence Tuning by Defect Passivation via Laser Irradiation on Aged Monolayer MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38240-38246.	8.0	37
9	Effects of spatial dispersion on the Casimir force between graphene sheets. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	30
10	Influence of mono versus bis-electron-donor ancillary ligands in heteroleptic Ru(<i>ii</i>) bipyridyl complexes on electron injection from the first excited singlet and triplet states in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14228-14235.	10.3	30
11	Exciton-phonon interactions and exciton dephasing in semiconductor quantum-well heterostructures. <i>Physical Review B</i> , 2003, 68, .	3.2	27
12	Charge Generation Dynamics in Efficient All-Polymer Solar Cells: Influence of Polymer Packing and Morphology. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27586-27591.	8.0	22
13	Positronium in alkali halides: Tunneling from the delocalized to the self-trapped state. <i>Physical Review B</i> , 1998, 57, 11341-11348.	3.2	18
14	The Role of FRET in Non-Fullerene Organic Solar Cells: Implications for Molecular Design. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3764-3771.	2.5	18
15	Chirality dependent carbon nanotube interactions. <i>Physical Review B</i> , 2011, 83, .	3.2	17
16	Lowest energy Frenkel and charge transfer exciton intermixing in one-dimensional copper phthalocyanine molecular lattice. <i>Applied Physics Letters</i> , 2016, 109, 213302.	3.3	16
17	Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge-Transfer Excitons. <i>Advanced Energy Materials</i> , 2016, 6, 1301032.	19.5	16
18	A femtosecond study of the anomaly in electron injection for dye-sensitized solar cells: the influence of isomerization employing Ru(<i>ii</i>) sensitizers with anthracene and phenanthrene ancillary ligands. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2750-2756.	2.8	13

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19	Impact of highly crystalline, isoindigo-based small-molecular additives for enhancing the performance of all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21291-21299.	10.3	13
20	Design and synthesis of BODIPY sensitizers with long alkyl chains tethered to N-carbazole and their application for dye sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2016, 184, 57-63.	4.0	10
21	Temperature-activated transition of positronium from self-trapped to delocalized state in $\langle \text{Ca} \rangle \langle \text{F} \rangle_2$. <i>Physical Review B</i> , 2007, 76, .	3.2	9
22	Configuration space method for calculating binding energies of exciton complexes in quasi-1D/2D semiconductors. <i>Modern Physics Letters B</i> , 2016, 30, 1630006.	1.9	9
23	Near Band-Edge Optical Excitation Leading to Catastrophic Ionization and Electron-Hole Liquid in Room-Temperature Monolayer MoS ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900223.	1.5	9
24	Fermi liquid theory sheds light on hot electron-hole liquid in $\langle S \rangle_2$. <i>Physical Review B</i> , 2021, 103, .	3.2	9
25	Surface plasmon amplification under controlled exciton-plasmon coupling in individual carbon nanotubes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1259-1264.	0.8	8
26	Nonpolar optical scattering of positronium in magnesium fluoride. <i>Physical Review B</i> , 2005, 72, .	3.2	7
27	Optically promoted bipartite atomic entanglement in hybrid metallic carbon nanotube systems. <i>Journal of Chemical Physics</i> , 2014, 140, 064301.	3.0	6
28	Zero-point energy of a cylindrical layer of finite thickness. <i>Physical Review A</i> , 2008, 78, .	2.5	5
29	Charge generation dynamics in polymer nonfullerene solar cells with low energy loss. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	1.3	4
30	Electrostatic field control of exciton-plasmon coupling and optical response of individual carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 468-471.	1.5	3
31	Quantum optics phenomena in atomically doped carbon nanotubes. <i>Optics and Spectroscopy (English)</i> Tj ETQq1 1 0.784314 rgBT /O	0.6	2
32	Surface exciton-plasmons and optical response of small-diameter carbon nanotubes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010, 108, 376-384.	0.6	2
33	On the role of interband surface plasmons in carbon nanotubes. <i>Optics and Spectroscopy (English)</i> Tj ETQq1 1 0.784314 rgBT /Overl	0.6	2
34	Tunnel detrapping of self-trapped positronium in SrF ₂ single crystal. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3867-3870.	0.8	1
35	Organic Photovoltaics: Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge-Transfer Excitons (<i>Adv. Energy Mater.</i> 1/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	1
36	QUBIT ENTANGLEMENT FROM A BIPARTITE ATOMIC SYSTEM UNDER STRONG ATOM-VACUUM-FIELD COUPLING IN A CARBON NANOTUBE. , 2007, , .		0