

# Johann Boucl

## List of Publications by Citations

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59  
papers

1,773  
citations

23  
h-index

41  
g-index

65  
ext. papers

1,989  
ext. citations

4.7  
avg, IF

4.81  
L-index

#	Paper	IF	Citations
59	Hybrid polymer/metal oxide thin films for photovoltaic applications. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3141		304
58	Hybrid Solar Cells from a Blend of Poly(3-hexylthiophene) and Ligand-Capped TiO <sub>2</sub> Nanorods. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 622-633	15.6	132
57	Photoluminescence features on the Raman spectra of quasistoichiometric SiC nanoparticles: Experimental and numerical simulations. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	105
56	Hybrid Bulk Heterojunction Solar Cells Based on P3HT and Porphyrin-Modified ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11273-11278	3.8	87
55	Solid-state dye-sensitized and bulk heterojunction solar cells using TiO <sub>2</sub> and ZnO nanostructures: recent progress and new concepts at the borderline. <i>Polymer International</i> , <b>2012</b> , 61, 355-373	3.3	86
54	One step synthesis of N-doped and Au-loaded TiO <sub>2</sub> nanoparticles by laser pyrolysis: Application in photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 174-175, 367-375	21.8	67
53	Printable WO <sub>3</sub> electron transporting layer for perovskite solar cells: Influence on device performance and stability. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 161, 347-354	6.4	58
52	Simple Approach to Hybrid Polymer/Porous Metal Oxide Solar Cells from Solution-Processed ZnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3664-3674	3.8	50
51	Carbazole-based molecular glasses for efficient solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2013</b> , 233, 86-92	8.9	42
50	Solid-state dye-sensitized solar cells based on ZnO nanocrystals. <i>Nanotechnology</i> , <b>2010</b> , 21, 205203	3.4	42
49	The benefits of graphene for hybrid perovskite solar cells. <i>Synthetic Metals</i> , <b>2016</b> , 222, 3-16	3.6	42
48	Experimental and SCAPS simulated formamidinium perovskite solar cells: A comparison of device performance. <i>Solar Energy</i> , <b>2020</b> , 205, 349-357	6.8	40
47	Direct photocurrent generation from nitrogen doped TiO <sub>2</sub> electrodes in solid-state dye-sensitized solar cells: Towards optically-active metal oxides for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 117, 624-631	6.4	38
46	Conjugated Materials as the Hole-Transporting Layer in Perovskite Solar Cells. <i>Metals</i> , <b>2016</b> , 6, 21	2.3	35
45	Toward Highly Efficient Inkjet-Printed Perovskite Solar Cells Fully Processed Under Ambient Conditions and at Low Temperature. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800191	7.1	35
44	Toward Efficient Solid-State p-Type Dye-Sensitized Solar Cells: The Dye Matters. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 129-139	3.8	33
43	TiO <sub>2</sub> Nanocrystals Synthesized by Laser Pyrolysis for the Up-Scaling of Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 908-916	21.8	29

42	Influence of silicon and carbon excesses on the aqueous dispersion of SiC nanocrystals for optical application. <i>Journal of Nanoparticle Research</i> , <b>2005</b> , 7, 275-285	2.3	29
41	Nanoscale control of the network morphology of high efficiency polymer fullerene solar cells by the use of high material concentration in the liquid phase. <i>Nanotechnology</i> , <b>2010</b> , 21, 035201	3.4	27
40	Hybrid bulk heterojunction solar cells based on blends of TiO <sub>2</sub> nanorods and P3HT. <i>Comptes Rendus Physique</i> , <b>2008</b> , 9, 110-118	1.4	27
39	Single-step preparation of TiO <sub>2</sub> /MWCNT Nanohybrid materials by laser pyrolysis and application to efficient photovoltaic energy conversion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 51-6	9.5	26
38	Local electrooptic effect of the SiC large-sized nanocrystallites incorporated in polymer matrices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2002</b> , 302, 196-202	2.3	25
37	Carbazole-based hole transporting material for solid state dye-sensitized solar cells: Influence of the purification methods. <i>Materials Science in Semiconductor Processing</i> , <b>2016</b> , 43, 90-95	4.3	23
36	Vibrational density of states in silicon carbide nanoparticles: experiments and numerical simulations. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, 5101-5110	1.8	22
35	Stoichiometry and interface effects on the electronic and optical properties of SiC nanoparticles. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 1243-1247	3.5	22
34	One-Step Synthesis of TiO/Graphene Nanocomposites by Laser Pyrolysis with Well-Controlled Properties and Application in Perovskite Solar Cells. <i>ACS Omega</i> , <b>2019</b> , 4, 11906-11913	3.9	21
33	Well-designed poly(3-hexylthiophene) as hole transporting material: A new opportunity for solid-state dye-sensitized solar cells. <i>Synthetic Metals</i> , <b>2017</b> , 226, 157-163	3.6	20
32	Electronic transport and optical properties of thin oxide films. <i>Thin Solid Films</i> , <b>2010</b> , 518, 4582-4585	2.2	19
31	Diphenylamino-substituted derivatives of 9-phenylcarbazole as glass-forming hole-transporting materials for solid state dye sensitized solar cells. <i>Synthetic Metals</i> , <b>2012</b> , 162, 1997-2004	3.6	18
30	Influence of Nitrogen Doping on Device Operation for TiO <sub>2</sub> Based Solid-State Dye-Sensitized Solar Cells: Photo-Physics from Materials to Devices. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	18
29	Star-shaped carbazole derivative based efficient solid-state dye sensitized solar cell. <i>Journal of Power Sources</i> , <b>2014</b> , 253, 230-238	8.9	17
28	Electrodeposited ZnO nanowires as photoelectrodes in solid-state organic dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 7472-80	3.6	17
27	Stability assessments on luminescent down-shifting molecules for UV-protection of perovskite solar cells. <i>Optical Materials</i> , <b>2018</b> , 75, 781-786	3.3	17
26	Supramolecular architectures featuring the antenna effect in solid state DSSCs. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 387-395	5.8	16
25	Carbazole based hole transporting materials for solid state dye sensitizer solar cells: role of the methoxy groups. <i>Polymer International</i> , <b>2014</b> , 63, 1387-1393	3.3	16

24	Cluster Approach To Model Titanium Dioxide as Isolated or Organic Dye Sensitized Nanoobjects. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6009-6018	3.8	16
23	Amplification of light collection in solid-state dye-sensitized solar cells via the antenna effect through supramolecular assembly. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 9910-8	3.6	15
22	Linear electro-optical behavior of hybrid nanocomposites based on silicon carbide nanocrystals and polymer matrices. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	14
21	Carbazole-based twin molecules as hole-transporting materials in dye-sensitized solar cells. <i>Dyes and Pigments</i> , <b>2018</b> , 151, 238-244	4.6	13
20	Carbon/Graphene-Modified Titania with Enhanced Photocatalytic Activity under UV and Vis Irradiation. <i>Materials</i> , <b>2019</b> , 12,	3.5	13
19	Influence of an electrode self-protective architecture on the stability of inverted polymer solar cells based on P3HT:PCBM with an active area of 2cm <sup>2</sup> . <i>Synthetic Metals</i> , <b>2016</b> , 212, 161-166	3.6	11
18	Simple strategy to tune the charge transport properties of conjugated polymer/carbon nanotube composites using an electric field assisted deposition technique. <i>Polymer International</i> , <b>2014</b> , 63, 1378-1386	3.3	10
17	Effect of bismuth iodide (BiI <sub>3</sub> ) interfacial layer with different HTLs in FAPI based perovskite solar cell SCAPS-1D study. <i>Solar Energy</i> , <b>2021</b> , 218, 157-168	6.8	8
16	Electrical and Optical Properties of La <sub>1-x</sub> A <sub>x</sub> Fe <sub>1-y</sub> ByO <sub>3</sub> Perovskite Films (with A = Sr and Ca, and B= Co, Ga, Ti): Toward Interlayers for Optoelectronic Applications. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 28583-28590	3.8	8
15	Electro-optic phenomena in guest-host films of PMMA and SiC nanocrystals. <i>Optics Communications</i> , <b>2005</b> , 246, 415-420	2	7
14	Copper and Bismuth incorporated mixed cation perovskite solar cells by one-step solution process. <i>Solar Energy</i> , <b>2021</b> , 218, 226-236	6.8	7
13	In Depth Analysis of Photovoltaic Performance of Chlorophyll Derivative-Based "All Solid-State" Dye-Sensitized Solar Cells. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
12	Linear Electro-Optical Effects in the Hybrid Matrices Polymer/SiC Nanocrystals. <i>Solid State Phenomena</i> , <b>2003</b> , 94, 115-124	0.4	6
11	Simple carbazole-based hole transporting materials with fused benzene ring substituents for efficient perovskite solar cells. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 12211-12214	3.6	5
10	Contribution of Hexagonal-like Structure to the Nonlinear Optics in Large-sized SiC Nanocrystallites. <i>Nonlinear Optics, Quantum Optics</i> , <b>2001</b> , 28, 291-305		5
9	Chalcogenide BaZrS <sub>3</sub> perovskite solar cells: A numerical simulation and analysis using SCAPS-1D. <i>Optical Materials</i> , <b>2022</b> , 126, 112250	3.3	5
8	Star-shaped triphenylamine-based molecular glass for solid state dye sensitized solar cell application. <i>Synthetic Metals</i> , <b>2014</b> , 195, 328-334	3.6	4
7	Characterization and Electronic Properties of Heptazine Layers: Towards Promising Interfacial Materials for Organic Optoelectronics. <i>Materials</i> , <b>2020</b> , 13,	3.5	4

6	Some fundamental and applicative properties of [polymer/nano-SiC] hybrid nanocomposites. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 79, 012002	0.3	3
5	A new approach to modelling Kelvin probe force microscopy of hetero-structures in the dark and under illumination. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	2
4	Efficient 2T CsK <sub>2</sub> Pb(I <sub>2</sub> Br) <sub>3</sub> Bi <sub>2</sub> incorporated narrow bandgap perovskite tandem solar cells: A numerical study with current matching conditions. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2100121	3.5	2
3	Effect of the secondary rutile phase in single-step synthesized carbon-coated anatase TiO <sub>2</sub> nanoparticles as lithium-ion anode material. <i>Energy Technology</i> , <b>2021</b> , 9, 2001067	3.5	2
2	Multifunctional derivatives of dimethoxy-substituted triphenylamine containing different acceptor moieties. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	1
1	Electrodeposited ZnO nanoparticles on vertically aligned carbon nanotubes (VACNTs) as promising charge extracting electrodes for halide perovskite devices. <i>Materials Advances</i> , <b>2020</b> , 1, 1232-1240	3.3	1