

Michael Krueger

List of Publications by Year in descending order

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49
papers

3,147
citations

257357

24
h-index

233338

45
g-index

52
all docs

52
docs citations

52
times ranked

4483
citing authors

#	ARTICLE	IF	CITATIONS
1	Sequence-Specific Molecular Lithography on Single DNA Molecules. <i>Science</i> , 2002, 297, 72-75.	6.0	600
2	Template Synthesis of Nanowires in Porous Polycarbonate Membranes: Electrochemistry and Morphology. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5497-5505.	1.2	479
3	Bulk-heterojunction hybrid solar cells based on colloidal nanocrystals and conjugated polymers. <i>Energy and Environmental Science</i> , 2010, 3, 1851.	15.6	256
4	Electrochemical carbon nanotube field-effect transistor. <i>Applied Physics Letters</i> , 2001, 78, 1291-1293.	1.5	253
5	Efficiency enhancement for bulk-heterojunction hybrid solar cells based on acid treated CdSe quantum dots and low bandgap polymer PCPDTBT. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1232-1237.	3.0	120
6	PbSe Nanocrystal Assemblies: Synthesis and Structural, Optical, and Electrical Characterization. <i>Nano Letters</i> , 2004, 4, 159-165.	4.5	109
7	Fabrication and characterization of buckypaper-based nanostructured electrodes as a novel material for biofuel cell applications. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5831.	1.3	87
8	A highly efficient buckypaper-based electrode material for mediatorless laccase-catalyzed dioxygen reduction. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4133-4138.	5.3	86
9	Thiol functionalized reduced graphene oxide as a base material for novel graphene-nanoparticle hybrid composites. <i>Chemical Engineering Journal</i> , 2013, 231, 146-154.	6.6	85
10	Synthesis, Stabilization, Functionalization and, DFT Calculations of Gold Nanoparticles in Fluorous Phases (PTFE and Ionic Liquids). <i>Chemistry - A European Journal</i> , 2009, 15, 10047-10059.	1.7	84
11	Performance enhancement of CdSe nanorod-polymer based hybrid solar cells utilizing a novel combination of post-synthetic nanoparticle surface treatments. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 433-440.	3.0	82
12	Blue Luminescence and Superstructures from Magic Size Clusters of CdSe. <i>Nano Letters</i> , 2009, 9, 514-518.	4.5	81
13	Comparative electron paramagnetic resonance investigation of reduced graphene oxide and carbon nanotubes with different chemical functionalities for quantum dot attachment. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	80
14	Charge transfer and surface defect healing within ZnO nanoparticle decorated graphene hybrid materials. <i>Nanoscale</i> , 2016, 8, 9682-9687.	2.8	74
15	A facile synthesis method to silica coated CdSe/ZnS nanocomposites with tuneable size and optical properties. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 30-34.	5.0	52
16	Sensitivity of single multiwalled carbon nanotubes to the environment. <i>New Journal of Physics</i> , 2003, 5, 138-138.	1.2	46
17	Efficient polymer nanocrystal hybrid solar cells by improved nanocrystal composition. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3227-3232.	3.0	46
18	Electron heating effects in diffusive metal wires. <i>Applied Physics Letters</i> , 1997, 71, 773-775.	1.5	45

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19	Improved efficiency of bulk heterojunction hybrid solar cells by utilizing CdSe quantum dot-graphene nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12251-12260.	1.3	45
20	Functionalized-carbon nanotube supported electrocatalysts and buckypaper-based biocathodes for glucose fuel cell applications. <i>Electrochimica Acta</i> , 2011, 56, 7659-7665.	2.6	42
21	Synthesis of new maleimide derivatives of daunorubicin and biological activity of acid labile transferrin conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 617-622.	1.0	41
22	Polymer-Nanocrystal Hybrid Materials for Light Conversion Applications. <i>Polymers</i> , 2012, 4, 1-19.	2.0	32
23	Synthesis and Stability of Four Maleimide Derivatives of the Anticancer Drug Doxorubicin for the Preparation of Chemoimmunoconjugates. <i>Chemical and Pharmaceutical Bulletin</i> , 1997, 45, 399-401.	0.6	29
24	Photo-induced charge recombination kinetics in low bandgap PCPDTBT polymer:CdSe quantum dot bulk heterojunction solar cells. <i>Chemical Science</i> , 2011, 2, 2396.	3.7	25
25	Critical Parameters for the Scale-Up Synthesis of Quantum Dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6041-6045.	0.9	24
26	Individual filamentous phage imaged by electron holography. <i>European Biophysics Journal</i> , 2011, 40, 1197-1201.	1.2	24
27	Prolongation of electrode lifetime in biofuel cells by periodic enzyme renewal. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 841-849.	1.7	22
28	Bright luminescent, colloidal stable silica coated CdSe/ZnS nanocomposite by an in situ, one-pot surface functionalization. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 41-45.	5.0	22
29	Atomic Layer Deposition on Phase-Shift Lithography Generated Photoresist Patterns for 1D Nanochannel Fabrication. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3473-3478.	4.0	20
30	Highly photoluminescent and photostable CdSe quantum dot-nylon hybrid composites for efficient light conversion applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 245-250.	1.7	19
31	Study of traps in P3HT:PCBM based organic solar cells using fractional thermally stimulated current (FTSC) technique. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2537-2540.	1.5	16
32	Bioluminescence assay for the highly sensitive detection of botulinum neurotoxin A activity. <i>Analyst</i> , 2013, 138, 6154.	1.7	16
33	Graphene-quantum dot hybrid materials on the road to optoelectronic applications. <i>Synthetic Metals</i> , 2016, 219, 33-43.	2.1	14
34	From Bioconjugation to Self-Assembly in Nanobiotechnology: Quantum Dots Trapped and Stabilized by Toroid Protein Yoctowells. <i>Advanced Engineering Materials</i> , 2012, 14, B344.	1.6	9
35	Blocked-micropores, surface functionalized, bio-compatible and silica-coated iron oxide nanocomposites as advanced MRI contrast agent. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	9
36	Correlation between CdSe QD Synthesis, Post-Synthetic Treatment, and BHJ Hybrid Solar Cell Performance. <i>Nanomaterials</i> , 2016, 6, 115.	1.9	8

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37	Improved device performance stability of bulk-heterojunction hybrid solar cells with low molecular weight PCPDPTB. Synthetic Metals, 2017, 230, 73-78.	2.1	8
38	Antiferromagnetic domain configurations in patterned LaFeO ₃ thin films. Journal of Physics Condensed Matter, 2007, 19, 386214.	0.7	7
39	Networking Resources for Research and Scientific Education in BW-eLabs. , 2009, , .		6
40	Quantum dot-nanocarbon based hybrid solar cells with improved long-term performance. Synthetic Metals, 2016, 222, 34-41.	2.1	5
41	Reprint of "Graphene-quantum dot hybrid materials on the road to optoelectronic applications". Synthetic Metals, 2016, 222, 23-33.	2.1	5
42	Determination of volume fractions and ligand layer thickness of polymer/CdSe quantum dot blend films by effective medium approximations. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 75-82.	2.4	4
43	Improved Hole Injection in Bulk Heterojunction (BHJ) Hybrid Solar Cells by Applying a Thermally Reduced Graphene Oxide Buffer Layer. Journal of Nanomaterials, 2019, 2019, 1-10.	1.5	4
44	Thiolated Carbon Nanotubes/CdSe Quantum Dot Based Hybrid Solar Cells with Improved Long-Term Stability. Nano Hybrids, 2015, 9, 7-14.	0.3	2
45	Enhanced Device Performance of Bulk Heterojunction (BHJ) Hybrid Solar Cells Based on Colloidal CdSe Quantum Dots (QDs) via Optimized Hexanoic Acid-Assisted Washing Treatment. Advances in Materials Science and Engineering, 2019, 2019, 1-6.	1.0	2
46	Inorganic-Organic Thin Hybrid Films for Applications in Bulk-Heterojunction Solar Cells. , 2011, , .		0
47	Improved device performance of Bulk Heterojunction (BHJ) hybrid solar cells by optimization CdSe QDs/PCPDTBT ratio. , 2017, , .		0
48	Integration of Multiwalled Carbon Nanotubes in Bulk Heterojunction CdSe/PCPDTBT Hybrid Solar Cells. Materials Science Forum, 2018, 929, 150-157.	0.3	0
49	Hybrid Materials: From Synthesis Towards Advanced Materials. Hybrid Materials, 2014, 1, .	0.7	0