

Scott M Geyer

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,821
citations

159585

30
h-index

243625

44
g-index

45
all docs

45
docs citations

45
times ranked

6517
citing authors

#	ARTICLE	IF	CITATIONS
1	A broadband Fourier transform microwave spectrometer based on chirped pulse excitation. Review of Scientific Instruments, 2008, 79, 053103.	1.3	482
2	Colloidal PbS Quantum Dot Solar Cells with High Fill Factor. ACS Nano, 2010, 4, 3743-3752.	14.6	416
3	Carrier multiplication yields in PbS and PbSe nanocrystals measured by transient photoluminescence. Physical Review B, 2008, 78, .	3.2	206
4	Imbedded Nanocrystals of CsPbBr ₃ in Cs ₄ PbBr ₆ : Kinetics, Enhanced Oscillator Strength, and Application in Light-Emitting Diodes. Advanced Materials, 2017, 29, 1703703.	21.0	184
5	Perspective on the Prospects of a Carrier Multiplication Nanocrystal Solar Cell. Nano Letters, 2011, 11, 2145-2151.	9.1	172
6	A highly active three-dimensional Z-scheme ZnO/Au/g-C ₃ N ₄ photocathode for efficient photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2020, 263, 118180.	20.2	126
7	Electro-synthesis of 3D porous hierarchical Ni-Fe phosphate film/Ni foam as a high-efficiency bifunctional electrocatalyst for overall water splitting. Journal of Materials Chemistry A, 2016, 4, 13866-13873.	10.3	124
8	The rotational spectrum of epifluorohydrin measured by chirped-pulse Fourier transform microwave spectroscopy. Journal of Molecular Spectroscopy, 2006, 238, 200-212.	1.2	109
9	Scalable neutral H ₂ O ₂ electrosynthesis by platinum diphosphide nanocrystals by regulating oxygen reduction reaction pathways. Nature Communications, 2020, 11, 3928.	12.8	101
10	Enhanced stabilization of inorganic cesium lead triiodide (CsPbI ₃) perovskite quantum dots with tri-octylphosphine. Nano Research, 2018, 11, 762-768.	10.4	94
11	A Ni ₂ P nanocrystal cocatalyst enhanced TiO ₂ photoanode towards highly efficient photoelectrochemical water splitting. Chemical Engineering Journal, 2020, 385, 123878.	12.7	71
12	<i>In situ</i> decorated Ni ₂ P nanocrystal co-catalysts on g-C ₃ N ₄ for efficient and stable photocatalytic hydrogen evolution <i>via</i> a facile co-heating method. Journal of Materials Chemistry A, 2020, 8, 2995-3004.	10.3	68
13	Interfacial Recombination for Fast Operation of a Planar Organic/QD Infrared Photodetector. Advanced Materials, 2010, 22, 5250-5254.	21.0	66
14	Photoconduction in Annealed and Chemically Treated CdSe/ZnS Inorganic Nanocrystal Films. Journal of Physical Chemistry C, 2008, 112, 2308-2316.	3.1	65
15	Synthesis of lead-free Cs ₃ Sb ₂ Br ₉ perovskite alternative nanocrystals with enhanced photocatalytic CO ₂ reduction activity. Nanoscale, 2020, 12, 2987-2991.	5.6	65
16	Size-Dependent Charge Collection in Junctions Containing Single-Size and Multi-Size Arrays of Colloidal CdSe Quantum Dots. Journal of the American Chemical Society, 2008, 130, 74-82.	13.7	58
17	Enhanced visible light photocatalytic water reduction from a g-C ₃ N ₄ /SrTa ₂ O ₆ heterojunction. Applied Catalysis B: Environmental, 2017, 217, 448-458.	20.2	58
18	Efficient Luminescent Down-Shifting Detectors Based on Colloidal Quantum Dots for Dual-Band Detection Applications. ACS Nano, 2011, 5, 5566-5571.	14.6	55

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19	Cesium Oleate Precursor Preparation for Lead Halide Perovskite Nanocrystal Synthesis: The Influence of Excess Oleic Acid on Achieving Solubility, Conversion, and Reproducibility. <i>Chemistry of Materials</i> , 2019, 31, 62-67.	6.7	55
20	Electroluminescence from Nanoscale Materials via Field-Driven Ionization. <i>Nano Letters</i> , 2011, 11, 2927-2932.	9.1	51
21	Thin film characterization of zinc tin oxide deposited by thermal atomic layer deposition. <i>Thin Solid Films</i> , 2014, 556, 186-194.	1.8	50
22	Charge transport in mixed CdSe and CdTe colloidal nanocrystal films. <i>Physical Review B</i> , 2010, 82, .	3.2	47
23	Control of the Carrier Type in InAs Nanocrystal Films by Predeposition Incorporation of Cd. <i>ACS Nano</i> , 2010, 4, 7373-7378.	14.6	46
24	The Use of Size-Selective Excitation To Study Photocurrent through Junctions Containing Single-Size and Multi-Size Arrays of Colloidal CdSe Quantum Dots. <i>Journal of the American Chemical Society</i> , 2008, 130, 83-92.	13.7	43
25	The low temperature atomic layer deposition of ruthenium and the effect of oxygen exposure. <i>Journal of Materials Chemistry</i> , 2012, 22, 25154.	6.7	36
26	Lateral heterojunction photodetector consisting of molecular organic and colloidal quantum dot thin films. <i>Applied Physics Letters</i> , 2009, 94, 043307.	3.3	33
27	Facet-Selective Deposition of Ultrathin Al ₂ O ₃ on Copper Nanocrystals for Highly Stable CO ₂ Electroreduction to Ethylene. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24838-24843.	13.8	28
28	In Vacuo Photoemission Studies of Platinum Atomic Layer Deposition Using Synchrotron Radiation. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 176-179.	4.6	27
29	Structural evolution of platinum thin films grown by atomic layer deposition. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	27
30	Size Dependent Effects in Nucleation of Ru and Ru Oxide Thin Films by Atomic Layer Deposition Measured by Synchrotron Radiation X-ray Diffraction. <i>Chemistry of Materials</i> , 2013, 25, 3458-3463.	6.7	25
31	Tunable Infrared Emission From Printed Colloidal Quantum Dot/Polymer Composite Films on Flexible Substrates. <i>Journal of Display Technology</i> , 2010, 6, 90-93.	1.2	22
32	Molecular Rectifiers on Silicon: High Performance by Enhancing Top-Electrode/Molecule Coupling. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18564-18570.	8.0	21
33	A colloidal ZnTe quantum dot-based photocathode with a metal-insulator-semiconductor structure towards solar-driven CO ₂ reduction to tunable syngas. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3589-3596.	10.3	19
34	Interface Engineering of Colloidal CdSe Quantum Dot Thin Films as Acid-Stable Photocathodes for Solar-Driven Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17129-17139.	8.0	11
35	Multispectral imaging via luminescent down-shifting with colloidal quantum dots. <i>Optical Materials Express</i> , 2013, 3, 1167.	3.0	10
36	Impact of Nb(V) Substitution on the Structure and Optical and Photoelectrochemical Properties of the Cu ₅ (Ta _{1-x} Nb _x) ₁₁ O ₃₀ Solid Solution. <i>Inorganic Chemistry</i> , 2019, 58, 6845-6857.	4.0	10

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37	An atomic layer deposition chamber for in situ x-ray diffraction and scattering analysis. Review of Scientific Instruments, 2014, 85, 055116.	1.3	9
38	Dual-band ultraviolet-short-wavelength infrared imaging via luminescent downshifting with colloidal quantum dots. Journal of Nanophotonics, 2013, 7, 1.	1.0	8
39	Thin film based plasmon nanorulers. Applied Physics Letters, 2016, 109, .	3.3	5
40	Combining reduction and oxidation pathways leads to efficient H ₂ O ₂ production. Chem Catalysis, 2021, 1, 1356-1358.	6.1	2