Scott M Geyer

List of Publications by Year
in descending order

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	Facetâ€Selective Deposition of Ultrathin Al₂O₃ on Copper Nanocrystals for Highly Stable CO₂ Electroreduction to Ethylene. Angewandte Chemie - International Edition, 2021, 60, 24838-24843.	13.8	28
2	A colloidal ZnTe quantum dot-based photocathode with a metalâ€“insulatorâ€“semiconductor structure towards solar-driven CO₂ reduction to tunable syngas. Journal of Materials Chemistry A, 2021, 9, 3589-3596.	10.3	19
3	Combining reduction and oxidation pathways leads to efficient H2O2 production. Chem Catalysis, 2021, 1, 1356-1358.	6.1	2
4	A highly active three-dimensional Z-scheme ZnO/Au/g-C3N4 photocathode for efficient photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2020, 263, 118180.	20.2	126
5	In situ decorated Ni₂P nanocrystal co-catalysts on g-C₃N₄ for efficient and stable photocatalytic hydrogen evolution via a facile co-heating method. Journal of Materials Chemistry A, 2020, 8, 2995-3004.	10.3	68
6	A Ni2P nanocrystal cocatalyst enhanced TiO2 photoanode towards highly efficient photoelectrochemical water splitting. Chemical Engineering Journal, 2020, 385, 123878.	12.7	71
7	Scalable neutral H2O2 electrosynthesis by platinum diphosphide nanocrystals by regulating oxygen reduction reaction pathways. Nature Communications, 2020, 11, 3928.	12.8	101
8	Synthesis of lead-free Cs₃Sb₂Br₉ perovskite alternative nanocrystals with enhanced photocatalytic CO₂ reduction activity. Nanoscale, 2020, 12, 2987-2991.	5.6	65
9	Impact of Nb(V) Substitution on the Structure and Optical and Photoelectrochemical Properties of the Cu5(Ta1â€“xNbx)11O30 Solid Solution. Inorganic Chemistry, 2019, 58, 6845-6857.	4.0	10
10	Molecular Rectifiers on Silicon: High Performance by Enhancing Top-Electrode/Molecule Coupling. ACS Applied Materials & Interfaces, 2019, 11, 18564-18570.	8.0	21
11	Cesium Oleate Precursor Preparation for Lead Halide Perovskite Nanocrystal Synthesis: The Influence of Excess Oleic Acid on Achieving Solubility, Conversion, and Reproducibility. Chemistry of Materials, 2019, 31, 62-67.	6.7	55
12	Interface Engineering of Colloidal CdSe Quantum Dot Thin Films as Acid-Stable Photocathodes for Solar-Driven Hydrogen Evolution. ACS Applied Materials & Interfaces, 2018, 10, 17129-17139.	8.0	11
13	Enhanced stabilization of inorganic cesium lead triiodide (CsPbI3) perovskite quantum dots with tri-octylphosphine. Nano Research, 2018, 11, 762-768.	10.4	94
14	Enhanced visible light photocatalytic water reduction from a g-C3N4/SrTa2O6 heterojunction. Applied Catalysis B: Environmental, 2017, 217, 448-458.	20.2	58
15	Imbedded Nanocrystals of CsPbBr₃ in Cs₄PbBr₆: Kinetics, Enhanced Oscillator Strength, and Application in Lightâ€Emitting Diodes. Advanced Materials, 2017, 29, 1703703.	21.0	184
16	Thin film based plasmon nanorulers. Applied Physics Letters, 2016, 109, .	3.3	5
17	Electro-synthesis of 3D porous hierarchical Niâ€“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
18	An atomic layer deposition chamber for in situ x-ray diffraction and scattering analysis. Review of Scientific Instruments, 2014, 85, 055116.	1.3	9

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19	Structural evolution of platinum thin films grown by atomic layer deposition. Journal of Applied Physics, 2014, 116, .	2.5	27
20	Thin film characterization of zinc tin oxide deposited by thermal atomic layer deposition. Thin Solid Films, 2014, 556, 186-194.	1.8	50
21	In Vacuo Photoemission Studies of Platinum Atomic Layer Deposition Using Synchrotron Radiation. Journal of Physical Chemistry Letters, 2013, 4, 176-179.	4.6	27
22	Dual-band ultraviolet-short-wavelength infrared imaging via luminescent downshifting with colloidal quantum dots. Journal of Nanophotonics, 2013, 7, 1.	1.0	8
23	Size Dependent Effects in Nucleation of Ru and Ru Oxide Thin Films by Atomic Layer Deposition Measured by Synchrotron Radiation X-ray Diffraction. Chemistry of Materials, 2013, 25, 3458-3463.	6.7	25
24	Multispectral imaging via luminescent down-shifting with colloidal quantum dots. Optical Materials Express, 2013, 3, 1167.	3.0	10
25	The low temperature atomic layer deposition of ruthenium and the effect of oxygen exposure. Journal of Materials Chemistry, 2012, 22, 25154.	6.7	36
26	Efficient Luminescent Down-Shifting Detectors Based on Colloidal Quantum Dots for Dual-Band Detection Applications. ACS Nano, 2011, 5, 5566-5571.	14.6	55
27	Perspective on the Prospects of a Carrier Multiplication Nanocrystal Solar Cell. Nano Letters, 2011, 11, 2145-2151.	9.1	172
28	Electroluminescence from Nanoscale Materials via Field-Driven Ionization. Nano Letters, 2011, 11, 2927-2932.	9.1	51
29	Colloidal PbS Quantum Dot Solar Cells with High Fill Factor. ACS Nano, 2010, 4, 3743-3752.	14.6	416
30	Interfacial Recombination for Fast Operation of a Planar Organic/QD Infrared Photodetector. Advanced Materials, 2010, 22, 5250-5254.	21.0	66
31	Control of the Carrier Type in InAs Nanocrystal Films by Predeposition Incorporation of Cd. ACS Nano, 2010, 4, 7373-7378.	14.6	46
32	Tunable Infrared Emission From Printed Colloidal Quantum Dot/Polymer Composite Films on Flexible Substrates. Journal of Display Technology, 2010, 6, 90-93.	1.2	22
33	Charge transport in mixed CdSe and CdTe colloidal nanocrystal films. Physical Review B, 2010, 82, .	3.2	47
34	Lateral heterojunction photodetector consisting of molecular organic and colloidal quantum dot thin films. Applied Physics Letters, 2009, 94, 043307.	3.3	33
35	A broadband Fourier transform microwave spectrometer based on chirped pulse excitation. Review of Scientific Instruments, 2008, 79, 053103.	1.3	482
36	Photoconduction in Annealed and Chemically Treated CdSe/ZnS Inorganic Nanocrystal Films. Journal of Physical Chemistry C, 2008, 112, 2308-2316.	3.1	65

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37	The Use of Size-Selective Excitation To Study Photocurrent through Junctions Containing Single-Size and Multi-Size Arrays of Colloidal CdSe Quantum Dots. Journal of the American Chemical Society, 2008, 130, 83-92.	13.7	43
38	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
39	Carrier multiplication yields in PbS and PbSe nanocrystals measured by transient photoluminescence. Physical Review B, 2008, 78, .	3.2	206
40	The rotational spectrum of epifluorohydrin measured by chirped-pulse Fourier transform microwave spectroscopy. Journal of Molecular Spectroscopy, 2006, 238, 200-212.	1.2	109