Sean P Berglund

List of Publications by Year
in descending order

31 papers	2,917 citations	257450 24 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	4206 citing authors

#	Article	IF	Citations
1	Planar and Nanostructured nâ€Si/Metalâ€Oxide/WO₃/BiVO₄ Monolithic Tandem Devices for Unassisted Solar Water Splitting. Advanced Energy and Sustainability Research, 2020, 1, 2000037.	5.8	9
2	Revealing the relationship between photoelectrochemical performance and interface hole trapping in CuBi₂O₄ heterojunction photoelectrodes. Chemical Science, 2020, 11, 11195-11204.	7.4	26
3	Elucidating the optical, electronic, and photoelectrochemical properties of p-type copper vanadate (p-Cu₅V₂O₁₀) photocathodes. Journal of Materials Chemistry A, 2020, 8, 12538-12547.	10.3	17
4	Assessment of a W:BiVO₄â€“CuBi₂O₄Tandem Photoelectrochemical Cell for Overall Solar Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 13959-13970.	8.0	50
5	Evaluation of Copper Vanadate (Î²-Cu₂V₂O₇) as a Photoanode Material for Photoelectrochemical Water Oxidation. Chemistry of Materials, 2020, 32, 2408-2419.	6.7	42
6	Cu:NiO as a hole-selective back contact to improve the photoelectrochemical performance of CuBi₂O₄ thin film photocathodes. Journal of Materials Chemistry A, 2019, 7, 9183-9194.	10.3	70
7	Absorption Enhancement for Ultrathin Solar Fuel Devices with Plasmonic Gratings. ACS Applied Energy Materials, 2018, 1, 5810-5815.	5.1	10
8	Revealing the Performance-Limiting Factors in Î±-SnWO₄ Photoanodes for Solar Water Splitting. Chemistry of Materials, 2018, 30, 8322-8331.	6.7	58
9	Recent developments in complex metal oxide photoelectrodes. Journal Physics D: Applied Physics, 2017, 50, 193002.	2.8	127
10	Spray pyrolysis of CuBi₂O₄ photocathodes: improved solution chemistry for highly homogeneous thin films. Journal of Materials Chemistry A, 2017, 5, 12838-12847.	10.3	82
11	Assessing the Suitability of Iron Tungstate (Fe₂WO₆) as a Photoelectrode Material for Water Oxidation. Journal of Physical Chemistry C, 2017, 121, 153-160.	3.1	49
12	Gradient Self-Doped CuBi₂O₄ with Highly Improved Charge Separation Efficiency. Journal of the American Chemical Society, 2017, 139, 15094-15103.	13.7	187
13	Synthesis and Characterization of V-Doped Î²-In₂S₃ Thin Films on FTO Substrates. Journal of Physical Chemistry C, 2016, 120, 28753-28761.	3.1	31
14	Multinary Metal Oxide Photoelectrodes. , 2016, , 355-391.		11
15	Comprehensive Evaluation of CuBi₂O₄ as a Photocathode Material for Photoelectrochemical Water Splitting. Chemistry of Materials, 2016, 28, 4231-4242.	6.7	271
16	Synthesis of BiVO₄ nanoflake array films for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2014, 2, 9371-9379.	10.3	139
17	p-Si/W₂C and p-Si/W₂C/Pt Photocathodes for the Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2014, 136, 1535-1544.	13.7	77
18	Evaluating Electrocatalysts for the Hydrogen Evolution Reaction Using Bipolar Electrode Arrays: Bi- and Trimetallic Combinations of Co, Fe, Ni, Mo, and W. ACS Catalysis, 2014, 4, 1332-1339.	11.2	83

#	Article	IF	Citations
19	Antimony-Doped Tin Oxide Nanorods as a Transparent Conducting Electrode for Enhancing Photoelectrochemical Oxidation of Water by Hematite. ACS Applied Materials & Interfaces, 2014, 6, 5494-5499.	8.0	63
20	Nanostructured Bi2S3/WO3 heterojunction films exhibiting enhanced photoelectrochemical performance. Journal of Materials Chemistry A, 2013, 1, 12826.	10.3	134
21	Screening of transition and post-transition metals to incorporate into copper oxide and copper bismuth oxide for photoelectrochemical hydrogen evolution. Physical Chemistry Chemical Physics, 2013, 15, 4554.	2.8	74
22	Parallel Screening of Electrocatalyst Candidates Using Bipolar Electrochemistry. Analytical Chemistry, 2013, 85, 2493-2499.	6.5	70
23	Chemical bath deposition of vertically aligned TiO2 nanoplatelet arrays for solar energy conversion applications. Journal of Materials Chemistry A, 2013, 1, 4307.	10.3	38
24	Investigation of 35 Elements as Single Metal Oxides, Mixed Metal Oxides, or Dopants for Titanium Dioxide for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 25248-25258.	3.1	17
25	Improvement of Solar Energy Conversion with Nbâ€Incorporated TiO₂ Hierarchical Microspheres. ChemPhysChem, 2013, 14, 2270-2276.	2.1	11
26	Incorporation of Mo and W into nanostructured BiVO4 films for efficient photoelectrochemical water oxidation. Physical Chemistry Chemical Physics, 2012, 14, 7065.	2.8	211
27	Reactive Ballistic Deposition of Nanostructured Model Materials for Electrochemical Energy Conversion and Storage. Accounts of Chemical Research, 2012, 45, 434-443.	15.6	36
28	Enhancing Visible Light Photo-oxidation of Water with TiO₂ Nanowire Arrays via Cotreatment with H₂ and NH₃: Synergistic Effects between Ti³⁺ and N. Journal of the American Chemical Society, 2012, 134, 3659-3662.	13.7	585
29	Photoelectrochemical Oxidation of Water Using Nanostructured BiVO₄ Films. Journal of Physical Chemistry C, 2011, 115, 3794-3802.	3.1	230
30	Selective decomposition of formic acid on molybdenum carbide: A new reaction pathway. Journal of Catalysis, 2010, 269, 33-43.	6.2	55
31	Low Temperature Synthesis and Characterization of Nanocrystalline Titanium Carbide with Tunable Porous Architectures. Chemistry of Materials, 2010, 22, 319-329.	6.7	54