Justin B Sambur

List of Publications by Year
in descending order

47 papers	2,272 citations	394286 19 h-index	315616 38 g-index
49 all docs	49 docs citations	49 times ranked	3771 citing authors

#	Article	IF	Citations
1	Single Nanoflake Photoelectrochemistry Reveals Intrananoflake Doping Heterogeneity That Explains Ensemble-Level Photoelectrochemical Behavior. ACS Applied Materials & Interfaces, 2022, 14, 22737-22746.	4.0	8
2	(Invited) Energy Level Alignment at Monolayer MoS₂/Electrolyte Interfaces. ECS Meeting Abstracts, 2022, MA2022-01, 864-864.	0.0	0
3	Ensemble-level energy transfer measurements can reveal the spatial distribution of defect sites in semiconductor nanocrystals. Journal of Chemical Physics, 2021, 154, 054704.	1.2	5
4	Local Substrate Heterogeneity Influences Electrochemical Activity of TEM Grid-Supported Battery Particles. Frontiers in Chemistry, 2021, 9, 651248.	1.8	1
5	Surface-Facet-Dependent Electrochromic Properties of WO3 Nanorod Thin Films: Implications for Smart Windows. ACS Applied Nano Materials, 2021, 4, 3750-3759.	2.4	10
6	(Invited) Single Nanosheet Photoelectrochemistry: Probing Charge Recombination and Transport Pathways in Monolayer Transition Metal Dichalcogenide Photoelectrodes. ECS Meeting Abstracts, 2021, MA2021-01, 1782-1782.	0.0	0
7	(Invited) Scanning Photoelectrochemical Microscopy Reveals Doping Heterogeneity in Exfoliated MoS2 Nanosheets. ECS Meeting Abstracts, 2021, MA2021-01, 679-679.	0.0	0
8	A Homemade Smart Phone Microscope for Single-Particle Fluorescence Microscopy. Journal of Chemical Education, 2020, 97, 471-478.	1.1	10
9	Influence of the Substrate on the Optical and Photo-electrochemical Properties of Monolayer MoS₂. ACS Applied Materials & Interfaces, 2020, 12, 15034-15042.	4.0	24
10	Quantifying Capacitiveâ€Like and Batteryâ€Like Charge Storage Contributions Using Singleâ€Nanoparticle Electroâ€optical Imaging. ChemElectroChem, 2020, 7, 753-760.	1.7	10
11	Molecular Reaction Imaging of Single-Entity Photoelectrodes. ACS Energy Letters, 2020, 5, 1474-1486.	8.8	12
12	Quantifying Intercalation Pseudocapacitance Using Single Nanoparticle Electro-Optical Imaging. ECS Meeting Abstracts, 2020, MA2020-01, 1-1.	0.0	0
13	Effect of Single Particle-Particle Interface on Photoelectrodes Performance. ECS Meeting Abstracts, 2020, MA2020-01, 2539-2539.	0.0	0
14	(Invited) Single Nanosheet Photoelectrochemistry: Probing Charge Recombination and Transport Pathways in Monolayer Transition Metal Dichalcogenide Photoelectrodes. ECS Meeting Abstracts, 2020, MA2020-01, 829-829.	0.0	0
15	High-Throughput Single-Nanoparticle-Level Imaging of Electrochemical Ion Insertion Reactions. Analytical Chemistry, 2019, 91, 14983-14991.	3.2	12
16	Influence of single-nanoparticle electrochromic dynamics on the durability and speed of smart windows. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12666-12671.	3.3	38
17	Laser Annealing Improves the Photoelectrochemical Activity of Ultrathin MoSe₂ Photoelectrodes. ACS Applied Materials & Interfaces, 2019, 11, 19207-19217.	4.0	29
18	Efficient Ultrathin Liquid Junction Photovoltaics Based on Transition Metal Dichalcogenides. Nano Letters, 2019, 19, 2960-2967.	4.5	36

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19	Correlated Single-Molecule Reaction Imaging and Photocurrent Measurements Reveal Underlying Rate Processes in Photoelectrochemical Water Splitting. Journal of the Electrochemical Society, 2019, 166, H3286-H3293.	1.3	9
20	Plasmon-Resonant Enhancement of Photocatalysis on Monolayer WSe₂. ACS Photonics, 2019, 6, 787-792.	3.2	43
21	Probing Charge Carrier Transport and Recombination Pathways in Monolayer MoS₂/WS₂ Heterojunction Photoelectrodes. Nano Letters, 2019, 19, 9084-9094.	4.5	30
22	Single nanoparticle photoelectrochemistry: What is next?. Journal of Chemical Physics, 2019, 151, 180901.	1.2	10
23	Quantifying Photocurrent Loss of a Single Particleâ€“Particle Interface in Nanostructured Photoelectrodes. Nano Letters, 2019, 19, 958-962.	4.5	13
24	Photoelectrochemical Microscopy of Ultrathin Liquid Junction Solar Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
25	Single Nanoparticle Electrochromism Reveals Heterogeneous Charge Storage Rates and Ion Trapping Sites in Pseudocapacitive Smart Windows. ECS Meeting Abstracts, 2019, , .	0.0	0
26	Single-Nanoflake Photo-Electrochemistry Reveals Champion and Spectator Flakes in Exfoliated MoSe₂ Films. Journal of Physical Chemistry C, 2018, 122, 6539-6545.	1.5	23
27	Role of Photogenerated Iodine on the Energy-Conversion Properties of MoSe₂ Nanoflake Liquid Junction Photovoltaics. ACS Applied Materials & Interfaces, 2018, 10, 27780-27786.	4.0	17
28	Single Nanosheet Photoelectrochemistry. ECS Meeting Abstracts, 2018, , .	0.0	0
29	Patternable Solvent-Processed Thermoplastic Graphite Electrodes. Journal of the American Chemical Society, 2017, 139, 12623-12631.	6.6	65
30	Bimetallic Effect of Single Nanocatalysts Visualized by Super-Resolution Catalysis Imaging. ACS Central Science, 2017, 3, 1189-1197.	5.3	65
31	Distinguishing Direct and Indirect Photoelectrocatalytic Oxidation Mechanisms Using Quantitative Single-Molecule Reaction Imaging and Photocurrent Measurements. Journal of Physical Chemistry C, 2016, 120, 20668-20676.	1.5	45
32	Sub-particle reaction and photocurrent mapping to optimize catalyst-modified photoanodes. Nature, 2016, 530, 77-80.	13.7	299
33	Size Selective Photoetching of CdSe Quantum Dot Sensitizers on Single-Crystal TiO₂. ACS Applied Materials & Interfaces, 2014, 6, 21916-21920.	4.0	13
34	Approaches to Single-Nanoparticle Catalysis. Annual Review of Physical Chemistry, 2014, 65, 395-422.	4.8	149
35	In Situ Studies of Photoluminescence Quenching and Photocurrent Yield in Quantum Dot Sensitized Single Crystal TiO2 and ZnO Electrodes. Journal of Physical Chemistry C, 2012, 116, 21069-21076.	1.5	9
36	Photooxidation of Chloride by Oxide Minerals: Implications for Perchlorate on Mars. Journal of the American Chemical Society, 2011, 133, 17521-17523.	6.6	69

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37	Photoelectrochemical Characterization of Nanocrystalline Thin-Film Cu₂ZnSnS₄ Photocathodes. ACS Applied Materials & Interfaces, 2011, 3, 58-66.	4.0	110
38	Interfacial Morphology and Photoelectrochemistry of Conjugated Polyelectrolytes Adsorbed on Single Crystal TiO₂. Langmuir, 2011, 27, 11906-11916.	1.6	11
39	Multiple Exciton Collection in a Sensitized Photovoltaic System. Science, 2010, 330, 63-66.	6.0	763
40	Morphologies, structures, and interfacial electronic structure of perylene on Au(111). Journal of Applied Physics, 2010, 107, 063716.	1.1	17
41	Influence of Surface Chemistry on the Binding and Electronic Coupling of CdSe Quantum Dots to Single Crystal TiO₂Surfaces. Langmuir, 2010, 26, 4839-4847.	1.6	108
42	CdSe/ZnS Core/Shell Quantum Dot Sensitization of Low Index TiO₂ Single Crystal Surfaces. Journal of the American Chemical Society, 2010, 132, 2130-2131.	6.6	105
43	A Photoemission Study of the Morphology and Barrier Heights of the Interface between Chyrsene and Inert Substrates. Journal of Physical Chemistry C, 2009, 113, 1837-1849.	1.5	12
44	Multiple effects of the presence of water on the nucleophilic substitution reactions of NaX Faujasite zeolite with dimethyl methylphosphonate (DMMP). Microporous and Mesoporous Materials, 2008, 112, 116-124.	2.2	12
45	The influence of metal work function on the barrier heights of metal/pentacene junctions. Journal of Applied Physics, 2008, 103, .	1.1	35
46	Ubiquitous Pentacene Monolayer on Metals Deposited onto Pentacene Films. Langmuir, 2007, 23, 11366-11368.	1.6	8
47	Sodium X-type faujasite zeolite decomposition of dimethyl methylphosphonate (DMMP) to methylphosphonate: Nucleophilic zeolite reactions I. Microporous and Mesoporous Materials, 2006, 92, 56-60.	2.2	36