

# Eli Sutter

## List of Publications by Year in descending order

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67  
papers

4,872  
citations

218592

26  
h-index

95218

68  
g-index

68  
all docs

68  
docs citations

68  
times ranked

9170  
citing authors

#	ARTICLE	IF	CITATIONS
1	Why is anatase a better photocatalyst than rutile? - Model studies on epitaxial TiO <sub>2</sub> films. Scientific Reports, 2014, 4, 4043.	1.6	1,081
2	Reliable Exfoliation of Large-Area High-Quality Flakes of Graphene and Other Two-Dimensional Materials. ACS Nano, 2015, 9, 10612-10620.	7.3	451
3	Tin Disulfide—An Emerging Layered Metal Dichalcogenide Semiconductor: Materials Properties and Device Characteristics. ACS Nano, 2014, 8, 10743-10755.	7.3	449
4	Interaction of Black Phosphorus with Oxygen and Water. Chemistry of Materials, 2016, 28, 8330-8339.	3.2	436
5	Universal mechanical exfoliation of large-area 2D crystals. Nature Communications, 2020, 11, 2453.	5.8	394
6	Chemical Vapor Deposition and Etching of High-Quality Monolayer Hexagonal Boron Nitride Films. ACS Nano, 2011, 5, 7303-7309.	7.3	183
7	Phase Diagram of Nanoscale Alloy Particles Used for Vapor—Liquid—Solid Growth of Semiconductor Nanowires. Nano Letters, 2008, 8, 411-414.	4.5	123
8	Highly Enhanced Electrocatalytic Oxygen Reduction Performance Observed in Bimetallic Palladium-Based Nanowires Prepared under Ambient, Surfactantless Conditions. Nano Letters, 2012, 12, 2013-2020.	4.5	119
9	Chiral twisted van der Waals nanowires. Nature, 2019, 570, 354-357.	13.7	117
10	In situ microscopy of the self-assembly of branched nanocrystals in solution. Nature Communications, 2016, 7, 11213.	5.8	91
11	Nanoscale Integration of Two-Dimensional Materials by Lateral Heteroepitaxy. Nano Letters, 2014, 14, 4846-4851.	4.5	88
12	Nonradiative Energy Transfer from Individual CdSe/ZnS Quantum Dots to Single-Layer and Few-Layer Tin Disulfide. ACS Nano, 2016, 10, 4790-4796.	7.3	87
13	Nitrogen-Doping Induced Self-Assembly of Graphene Nanoribbon-Based Two-Dimensional and Three-Dimensional Metamaterials. Nano Letters, 2015, 15, 5770-5777.	4.5	80
14	Arrays of Ru nanoclusters with narrow size distribution templated by monolayer graphene on Ru. Surface Science, 2011, 605, 1676-1684.	0.8	70
15	Fabrication and enhanced photocatalytic activity of inorganic core—shell nanofibers produced by coaxial electrospinning. Chemical Science, 2012, 3, 1262.	3.7	68
16	Few-Layer to Multilayer Germanium(II) Sulfide: Synthesis, Structure, Stability, and Optoelectronics. ACS Nano, 2019, 13, 9352-9362.	7.3	61
17	Assembly and Interaction of Au/C Core—Shell Nanostructures: In Situ Observation in the Transmission Electron Microscope. Nano Letters, 2005, 5, 2092-2096.	4.5	60
18	Synthesis of single-crystalline one-dimensional LiNbO <sub>3</sub> nanowires. CrystEngComm, 2010, 12, 2675.	1.3	44

#	ARTICLE	IF	CITATIONS
19	Growth Mechanisms of Anisotropic Layered Group IV Chalcogenides on van der Waals Substrates for Energy Conversion Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 3026-3034.	2.4	43
20	Mechanical Decoupling of Graphene from Ru(0001) by Interfacial Reaction with Oxygen. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6320-6324.	1.5	41
21	1D Wires of 2D Layered Materials: Germanium Sulfide Nanowires as Efficient Light Emitters. <i>ACS Applied Nano Materials</i> , 2018, 1, 1042-1049.	2.4	40
22	Selective growth of Ge nanowires by low-temperature thermal evaporation. <i>Nanotechnology</i> , 2008, 19, 435607.	1.3	37
23	Microscopy of Graphene Growth, Processing, and Properties. <i>Advanced Functional Materials</i> , 2013, 23, 2617-2634.	7.8	35
24	Germanium Sulfide Nano-Optics Probed by STEM-Cathodoluminescence Spectroscopy. <i>Nano Letters</i> , 2018, 18, 4576-4583.	4.5	34
25	Defect-Laden MoSe <sub>2</sub> Quantum Dots Made by Turbulent Shear Mixing as Enhanced Electrocatalysts. <i>Small</i> , 2017, 13, 1700565.	5.2	31
26	Wrap-Around Core-Shell Heterostructures of Layered Crystals. <i>Advanced Materials</i> , 2019, 31, e1902166.	11.1	28
27	Surface Passivation by Excess Sulfur for Controlled Synthesis of Large, Thin SnS Flakes. <i>Chemistry of Materials</i> , 2020, 32, 8034-8042.	3.2	28
28	Vapor-Liquid-Solid Growth and Optoelectronics of Gallium Sulfide van der Waals Nanowires. <i>ACS Nano</i> , 2020, 14, 6117-6126.	7.3	28
29	Self-organized twist-heterostructures via aligned van der Waals epitaxy and solid-state transformations. <i>Nature Communications</i> , 2019, 10, 5528.	5.8	27
30	Termination of Ge surfaces with ultrathin GeS and GeS <sub>2</sub> layers via solid-state sulfurization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32473-32480.	1.3	25
31	Optoelectronics and Nanophotonics of Vapor-Liquid-Solid Grown GaSe van der Waals Nanoribbons. <i>Nano Letters</i> , 2021, 21, 4335-4342.	4.5	25
32	Van der Waals Nanowires with Continuously Variable Interlayer Twist and Twist Homojunctions. <i>Advanced Functional Materials</i> , 2021, 31, 2006412.	7.8	22
33	Real-Time Microscopy of Graphene Growth on Epitaxial Metal Films: Role of Template Thickness and Strain. <i>Small</i> , 2012, 8, 2250-2257.	5.2	21
34	Tuning the Growth Mode of 3D Silver Nanocrystal Superlattices by Triphenylphosphine. <i>Chemistry of Materials</i> , 2016, 28, 4380-4389.	3.2	21
35	Sequential Symmetry-Breaking Events as a Synthetic Pathway for Chiral Gold Nanostructures with Spiral Geometries. <i>Nano Letters</i> , 2021, 21, 2919-2925.	4.5	21
36	Large-Scale Layer-by-Layer Synthesis of Borophene on Ru(0001). <i>Chemistry of Materials</i> , 2021, 33, 8838-8843.	3.2	21

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37	Lateral Heterostructures of Multilayer GeS and SnS van der Waals Crystals. ACS Nano, 2020, 14, 12248-12255.	7.3	20
38	Preparation and characterization of Ni(111)/graphene/Y2O3(111) heterostructures. Journal of Applied Physics, 2013, 113, 194305.	1.1	17
39	Cathodoluminescence of Ultrathin Twisted Ge 1â€ x Sn x S van der Waals Nanoribbon Waveguides. Advanced Materials, 2021, 33, 2006649.	11.1	17
40	Nanoparticle-Templated Thickness Controlled Growth, Thermal Stability, and Decomposition of Ultrathin Tin Sulfide Plates. Chemistry of Materials, 2019, 31, 2563-2570.	3.2	16
41	One-step synthesis of Geâ€SiO2 core-shell nanowires. Applied Physics Letters, 2009, 94, 083109.	1.5	15
42	Sizeâ€Dependent Room Temperature Oxidation of Tin Particles. Particle and Particle Systems Characterization, 2014, 31, 879-885.	1.2	14
43	Radiation damage during <i>in situ</i> electron microscopy of DNA-mediated nanoparticle assemblies in solution. Nanoscale, 2018, 10, 12674-12682.	2.8	14
44	Thick Layered Semiconductor Devices with Water Top-Gates: High Onâ€Off Ratio Field-Effect Transistors and Aqueous Sensors. ACS Applied Materials & Interfaces, 2018, 10, 23198-23207.	4.0	14
45	<i>In situ</i> electron microscopy of the self-assembly of single-stranded DNA-functionalized Au nanoparticles in aqueous solution. Nanoscale, 2019, 11, 34-44.	2.8	14
46	Ultrathin Twisted Germanium Sulfide van der Waals Nanowires by Bismuth Catalyzed Vaporâ€Liquidâ€Solid Growth. Small, 2021, 17, e2104784.	5.2	14
47	In Situ Atomic Force Microscopy of the Reconfiguration of Onâ€Surface Selfâ€Assembled DNAâ€Nanoparticle Superlattices. Advanced Functional Materials, 2019, 29, 1806924.	7.8	12
48	Multilayer Lateral Heterostructures of Van Der Waals Crystals with Sharp, Carrierâ€Transparent Interfaces. Advanced Science, 2022, 9, e2103830.	5.6	12
49	Templating of arrays of Ru nanoclusters by monolayer graphene/Ru MoirÃ@s with different periodicities. Journal of Physics Condensed Matter, 2012, 24, 314201.	0.7	11
50	Plasmonic Effects on the Growth of Ag Nanocrystals in Solution. Langmuir, 2020, 36, 2044-2051.	1.6	11
51	Tunable Layer Orientation and Morphology in Vaporâ€Liquidâ€Solid Growth of One-Dimensional GeS van der Waals Nanostructures. Chemistry of Materials, 2021, 33, 3980-3988.	3.2	11
52	Imaging Anisotropic Waveguide Exciton Polaritons in Tin Sulfide. Nano Letters, 2022, 22, 1497-1503.	4.5	11
53	Free-standing large, ultrathin germanium selenide van der Waals ribbons by combined vaporâ€liquidâ€solid growth and edge attachment. Nanoscale, 2022, 14, 6195-6201.	2.8	11
54	Plasmonic Gold Trimers and Dimers with Air-Filled Nanogaps. ACS Applied Materials & Interfaces, 2022, 14, 28186-28198.	4.0	11

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55	Synthesis and optoelectronic properties of ultrathin Ga <sub>2</sub> O <sub>3</sub> nanowires. Journal of Materials Chemistry C, 2020, 8, 11555-11562.	2.7	10
56	Real-Time Electron Microscopy of Nanocrystal Synthesis, Transformations, and Self-Assembly in Solution. Accounts of Chemical Research, 2021, 54, 11-21.	7.6	10
57	Vapor-liquid-solid growth and Sb doping of Ge nanowires from liquid Au-Sb-Ge ternary alloy. Applied Physics A: Materials Science and Processing, 2010, 99, 217-221.	1.1	9
58	Single-Crystalline Ga <sub>2</sub> S <sub>3</sub> Nanotubes via Epitaxial Conversion of GaAs Nanowires. Nano Letters, 2019, 19, 8903-8910.	4.5	8
59	DNA-Mediated Three-Dimensional Assembly of Hollow Au-Ag Alloy Nanocages as Plasmonic Crystals. ACS Applied Nano Materials, 2020, 3, 8068-8074.	2.4	8
60	1D Germanium Sulfide van der Waals Bicrystals by Vapor-Liquid-Solid Growth. ACS Nano, 2022, 16, 3735-3743.	7.3	8
61	Effects of electronic correlation, physical structure, and surface termination on the electronic structure of V <sub>2</sub> O <sub>3</sub> . $\text{V}_{2}\text{O}_{3}$	1.1	6
62	Multifunctional Nanochemistry: Ambient, Electroless, Template-Based Synthesis and Characterization of Segmented Bimetallic Pd/Au and Pd/Pt Nanowires as High-Performance Electrocatalysts and Nanomotors. Israel Journal of Chemistry, 2012, 52, 1090-1103.	1.0	6
63	Axial Heterostructures with Phase-Controlled Metastable Segments via Post-Growth Reactions of Ge Nanowires. Chemistry of Materials, 2019, 31, 8174-8181.	3.2	4
64	Unconventional van der Waals heterostructures beyond stacking. IScience, 2021, 24, 103050.	1.9	4
65	Formation of Ge-GeS core-shell nanostructures via solid-state sulfurization of Ge nanowires. CrystEngComm, 2018, 20, 2193-2200.	1.3	3
66	Single-strand DNA-nanorod conjugates tunable anisotropic colloids for on-demand self-assembly. Journal of Colloid and Interface Science, 2021, 586, 847-854.	5.0	3
67	Photoluminescence and Raman scattering studies of GaN nanowires obtained by top-down and bottom-up approaches. Materials Research Society Symposia Proceedings, 2012, 1408, 29.	0.1	2