

Eli Sutter

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62
papers

3,520
citations

24
h-index

59
g-index

68
ext. papers

4,193
ext. citations

10.7
avg, IF

5.63
L-index

#	Paper	IF	Citations
62	Why is anatase a better photocatalyst than rutile?--Model studies on epitaxial TiO ₂ films. <i>Scientific Reports</i> , 2014 , 4, 4043	4.9	776
61	Interaction of Black Phosphorus with Oxygen and Water. <i>Chemistry of Materials</i> , 2016 , 28, 8330-8339	9.6	345
60	Tin disulfide-an emerging layered metal dichalcogenide semiconductor: materials properties and device characteristics. <i>ACS Nano</i> , 2014 , 8, 10743-55	16.7	341
59	Reliable Exfoliation of Large-Area High-Quality Flakes of Graphene and Other Two-Dimensional Materials. <i>ACS Nano</i> , 2015 , 9, 10612-20	16.7	334
58	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020 , 11, 2453	17.4	169
57	Chemical vapor deposition and etching of high-quality monolayer hexagonal boron nitride films. <i>ACS Nano</i> , 2011 , 5, 7303-9	16.7	162
56	Phase diagram of nanoscale alloy particles used for vapor-liquid-solid growth of semiconductor nanowires. <i>Nano Letters</i> , 2008 , 8, 411-4	11.5	117
55	Highly enhanced electrocatalytic oxygen reduction performance observed in bimetallic palladium-based nanowires prepared under ambient, surfactantless conditions. <i>Nano Letters</i> , 2012 , 12, 2013-20	11.5	112
54	In situ microscopy of the self-assembly of branched nanocrystals in solution. <i>Nature Communications</i> , 2016 , 7, 11213	17.4	81
53	Nanoscale integration of two-dimensional materials by lateral heteroepitaxy. <i>Nano Letters</i> , 2014 , 14, 4846-51	11.5	81
52	Nonradiative Energy Transfer from Individual CdSe/ZnS Quantum Dots to Single-Layer and Few-Layer Tin Disulfide. <i>ACS Nano</i> , 2016 , 10, 4790-6	16.7	76
51	Chiral twisted van der Waals nanowires. <i>Nature</i> , 2019 , 570, 354-357	50.4	66
50	Arrays of Ru nanoclusters with narrow size distribution templated by monolayer graphene on Ru. <i>Surface Science</i> , 2011 , 605, 1676-1684	1.8	65
49	Nitrogen-Doping Induced Self-Assembly of Graphene Nanoribbon-Based Two-Dimensional and Three-Dimensional Metamaterials. <i>Nano Letters</i> , 2015 , 15, 5770-7	11.5	62
48	Fabrication and enhanced photocatalytic activity of inorganic core-shell nanofibers produced by coaxial electrospinning. <i>Chemical Science</i> , 2012 , 3, 1262	9.4	61
47	Assembly and interaction of Au/C core-shell nanostructures: in situ observation in the transmission electron microscope. <i>Nano Letters</i> , 2005 , 5, 2092-6	11.5	54
46	Synthesis of single-crystalline one-dimensional LiNbO ₃ nanowires. <i>CrystEngComm</i> , 2010 , 12, 2675	3.3	40

45	Mechanical Decoupling of Graphene from Ru(0001) by Interfacial Reaction with Oxygen. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6320-6324	3.8	36
44	Few-Layer to Multilayer Germanium(II) Sulfide: Synthesis, Structure, Stability, and Optoelectronics. <i>ACS Nano</i> , 2019 , 13, 9352-9362	16.7	33
43	Selective growth of Ge nanowires by low-temperature thermal evaporation. <i>Nanotechnology</i> , 2008 , 19, 435607	3.4	33
42	Microscopy of Graphene Growth, Processing, and Properties. <i>Advanced Functional Materials</i> , 2013 , 23, 2617-2634	15.6	32
41	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	5.6	30
40	1D Wires of 2D Layered Materials: Germanium Sulfide Nanowires as Efficient Light Emitters. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1042-1049	5.6	28
39	Defect-Laden MoSe Quantum Dots Made by Turbulent Shear Mixing as Enhanced Electrocatalysts. <i>Small</i> , 2017 , 13, 1700565	11	24
38	Germanium Sulfide Nano-Optics Probed by STEM-Cathodoluminescence Spectroscopy. <i>Nano Letters</i> , 2018 , 18, 4576-4583	11.5	20
37	Wrap-Around Core-Shell Heterostructures of Layered Crystals. <i>Advanced Materials</i> , 2019 , 31, e1902166	24	19
36	Real-time microscopy of graphene growth on epitaxial metal films: role of template thickness and strain. <i>Small</i> , 2012 , 8, 2250-7	11	19
35	Tuning the Growth Mode of 3D Silver Nanocrystal Superlattices by Triphenylphosphine. <i>Chemistry of Materials</i> , 2016 , 28, 4380-4389	9.6	17
34	Preparation and characterization of Ni(111)/graphene/Y2O3(111) heterostructures. <i>Journal of Applied Physics</i> , 2013 , 113, 194305	2.5	16
33	Self-organized twist-heterostructures via aligned van der Waals epitaxy and solid-state transformations. <i>Nature Communications</i> , 2019 , 10, 5528	17.4	16
32	Termination of Ge surfaces with ultrathin GeS and GeS layers via solid-state sulfurization. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32473-32480	3.6	15
31	Nanoparticle-Templated Thickness Controlled Growth, Thermal Stability, and Decomposition of Ultrathin Tin Sulfide Plates. <i>Chemistry of Materials</i> , 2019 , 31, 2563-2570	9.6	14
30	One-step synthesis of GeBiO2 core-shell nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 083109	3.4	14
29	Vapor-Liquid-Solid Growth and Optoelectronics of Gallium Sulfide van der Waals Nanowires. <i>ACS Nano</i> , 2020 , 14, 6117-6126	16.7	13
28	Radiation damage during in situ electron microscopy of DNA-mediated nanoparticle assemblies in solution. <i>Nanoscale</i> , 2018 , 10, 12674-12682	7.7	13

27	Thick Layered Semiconductor Devices with Water Top-Gates: High On-Off Ratio Field-Effect Transistors and Aqueous Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23198-23207	9.5	13
26	In situ electron microscopy of the self-assembly of single-stranded DNA-functionalized Au nanoparticles in aqueous solution. <i>Nanoscale</i> , 2018 , 11, 34-44	7.7	12
25	Surface Passivation by Excess Sulfur for Controlled Synthesis of Large, Thin SnS Flakes. <i>Chemistry of Materials</i> , 2020 , 32, 8034-8042	9.6	12
24	Sequential Symmetry-Breaking Events as a Synthetic Pathway for Chiral Gold Nanostructures with Spiral Geometries. <i>Nano Letters</i> , 2021 , 21, 2919-2925	11.5	12
23	Templating of arrays of Ru nanoclusters by monolayer graphene/Ru Moiré with different periodicities. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 314201	1.8	11
22	Size-Dependent Room Temperature Oxidation of Tin Particles. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 879-885	3.1	9
21	Lateral Heterostructures of Multilayer GeS and SnS van der Waals Crystals. <i>ACS Nano</i> , 2020 , 14, 12248-12255	12.5	9
20	In Situ Atomic Force Microscopy of the Reconfiguration of On-Surface Self-Assembled DNA-Nanoparticle Superlattices. <i>Advanced Functional Materials</i> , 2019 , 29, 1806924	15.6	9
19	Vapor-Liquid-Solid growth and Sb doping of Ge nanowires from a liquid Au-Sb-Ge ternary alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 217-221	2.6	8
18	Van der Waals Nanowires with Continuously Variable Interlayer Twist and Twist Homojunctions. <i>Advanced Functional Materials</i> , 2021 , 31, 2006412	15.6	8
17	Cathodoluminescence of Ultrathin Twisted Ge Sn S van der Waals Nanoribbon Waveguides. <i>Advanced Materials</i> , 2021 , 33, e2006649	24	8
16	Plasmonic Effects on the Growth of Ag Nanocrystals in Solution. <i>Langmuir</i> , 2020 , 36, 2044-2051	4	7
15	Optoelectronics and Nanophotonics of Vapor-Liquid-Solid Grown GaSe van der Waals Nanoribbons. <i>Nano Letters</i> , 2021 , 21, 4335-4342	11.5	7
14	Single-Crystalline EGaS Nanotubes via Epitaxial Conversion of GaAs Nanowires. <i>Nano Letters</i> , 2019 , 19, 8903-8910	11.5	6
13	Multifunctional Nanochemistry: Ambient, Electroless, Template-Based Synthesis and Characterization of Segmented Bimetallic Pd/Au and Pd/Pt Nanowires as High-Performance Electrocatalysts and Nanomotors. <i>Israel Journal of Chemistry</i> , 2012 , 52, 1090-1103	3.4	6
12	Effects of electronic correlation, physical structure, and surface termination on the electronic structure of V2O3 nanowires. <i>Physical Review B</i> , 2012 , 86,	3.3	6
11	Synthesis and optoelectronic properties of ultrathin Ga2O3 nanowires. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11555-11562	7.1	6
10	Real-Time Electron Microscopy of Nanocrystal Synthesis, Transformations, and Self-Assembly in Solution. <i>Accounts of Chemical Research</i> , 2021 , 54, 11-21	24.3	6

9	DNA-Mediated Three-Dimensional Assembly of Hollow AuAg Alloy Nanocages as Plasmonic Crystals. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8068-8074	5.6	5
8	Axial Heterostructures with Phase-Controlled Metastable Segments via Post-Growth Reactions of Ge Nanowires. <i>Chemistry of Materials</i> , 2019 , 31, 8174-8181	9.6	3
7	Ultrathin Twisted Germanium Sulfide van der Waals Nanowires by Bismuth Catalyzed Vapor-Liquid-Solid Growth. <i>Small</i> , 2021 , e2104784	11	3
6	Formation of Ge ₂ Se ₃ core-shell nanostructures via solid-state sulfurization of Ge nanowires. <i>CrystEngComm</i> , 2018 , 20, 2193-2200	3.3	2
5	Photoluminescence and Raman scattering studies of GaN nanowires obtained by top-down and bottom-up approaches. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1408, 29		2
4	Multilayer Lateral Heterostructures of Van Der Waals Crystals with Sharp, Carrier-Transparent Interfaces. <i>Advanced Science</i> , 2021 , e2103830	13.6	2
3	Tunable Layer Orientation and Morphology in Vapor-Liquid-Solid Growth of One-Dimensional GeS van der Waals Nanostructures. <i>Chemistry of Materials</i> , 2021 , 33, 3980-3988	9.6	2
2	Single-strand DNA-nanorod conjugates - tunable anisotropic colloids for on-demand self-assembly. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 847-854	9.3	1
1	Unconventional van der Waals heterostructures beyond stacking. <i>iScience</i> , 2021 , 24, 103050	6.1	0