Sarah M Eichfeld

List of Publications by Year
in descending order

27 papers	2,449 citations	471509 17 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	4508 citing authors

#	Article	IF	Citations
1	Two-dimensional gallium nitride realized via grapheneÂencapsulation. Nature Materials, 2016, 15, 1166-1171.	27.5	626
2	Atomically thin resonant tunnel diodes built from synthetic van der Waals heterostructures. Nature Communications, 2015, 6, 7311.	12.8	382
3	Highly Scalable, Atomically Thin WSe₂ Grown <i>via</i> Metalâ€“Organic Chemical Vapor Deposition. ACS Nano, 2015, 9, 2080-2087.	14.6	339
4	Silicon Nanowire Array Photoelectrochemical Cells. Journal of the American Chemical Society, 2007, 129, 12344-12345.	13.7	215
5	Vertical 2D/3D Semiconductor Heterostructures Based on Epitaxial Molybdenum Disulfide and Gallium Nitride. ACS Nano, 2016, 10, 3580-3588.	14.6	207
6	Realizing Large-Scale, Electronic-Grade Two-Dimensional Semiconductors. ACS Nano, 2018, 12, 965-975.	14.6	172
7	Scanning Tunneling Microscopy and Spectroscopy of Air Exposure Effects on Molecular Beam Epitaxy Grown WSe₂ Monolayers and Bilayers. ACS Nano, 2016, 10, 4258-4267.	14.6	72
8	First principles kinetic Monte Carlo study on the growth patterns of WSe ₂ monolayer. 2D Materials, 2016, 3, 025029.	4.4	59
9	Rapid, non-destructive evaluation of ultrathin WSe2 using spectroscopic ellipsometry. APL Materials, 2014, 2, .	5.1	49
10	Influence of Carbon in Metalorganic Chemical Vapor Deposition of Few-Layer WSe2 Thin Films. Journal of Electronic Materials, 2016, 45, 6273-6279.	2.2	47
11	One dimensional metallic edges in atomically thin WSe ₂ induced by air exposure. 2D Materials, 2018, 5, 025017.	4.4	47
12	Controlling nucleation of monolayer WSe 2 during metal-organic chemical vapor deposition growth. 2D Materials, 2016, 3, 025015.	4.4	42
13	Selective-area growth and controlled substrate coupling of transition metal dichalcogenides. 2D Materials, 2017, 4, 025083.	4.4	36
14	Oxidation of silicon nanowires for top-gated field effect transistors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 370-374.	2.1	28
15	Resistivity measurements of intentionally and unintentionally template-grown doped silicon nanowire arrays. Nanotechnology, 2007, 18, 315201.	2.6	26
16	Dislocation driven spiral and non-spiral growth in layered chalcogenides. Nanoscale, 2018, 10, 15023-15034.	5.6	24
17	Tuning electronic transport in epitaxial graphene-based van der Waals heterostructures. Nanoscale, 2016, 8, 8947-8954.	5.6	21
18	Gas phase equilibrium limitations on the vaporâ€“liquidâ€“solid growth of epitaxial silicon nanowires using SiCl₄. Journal of Materials Research, 2011, 26, 2207-2214.	2.6	13

#	Article	IF	Citations
19	Thickness characterization of atomically thin WSe2 on epitaxial graphene by low-energy electron reflectivity oscillations. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	10
20	Selective Plating for Junction Delineation in Silicon Nanowires. Nano Letters, 2007, 7, 2642-2644.	9.1	9
21	Scanning Tunneling Microscopy Observation of Phonon Condensate. Scientific Reports, 2017, 7, 43214.	3.3	9
22	Vapor-liquid-solid growth of âŒ©110âŒª silicon nanowire arrays. Proceedings of SPIE, 2013, , .	0.8	6
23	Aluminum-Catalyzed Growth of â€¹110â€º Silicon Nanowires. Journal of Electronic Materials, 2015, 44, 1332-1337.	2.2	5
24	Stability of semiconducting transition metal dichalcogenides irradiated by soft X-rays and low energy electrons. Applied Physics Letters, 2017, 110, 173102.	3.3	4
25	Scanning Tunneling Microscopy of Atomic Scale Phonon Standing Waves in Quasi-freestanding WSe2 Monolayers. MRS Advances, 2016, 1, 1645-1650.	0.9	1
26	Two-dimensional materials for low power and high frequency devices. Proceedings of SPIE, 2015, , .	0.8	0
27	Electrical transport in two dimensional heterostructures. , 2015, , .		0