

Steven C Erwin

List of Publications by Year in descending order

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34
papers

4,177
citations

471509

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395702

33
g-index

34
all docs

34
docs citations

34
times ranked

6029
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological states in dimerized quantum-dot chains created by atom manipulation. Physical Review B, 2022, 105, .	3.2	4
2	Halide-Assisted Synthesis of Cadmium Chalcogenide Nanoplatelets. Chemistry of Materials, 2020, 32, 566-574.	6.7	29
3	Atomic Layer Epitaxy of III-Nitrides: A Microscopic Model of Homoepitaxial Growth. ACS Applied Materials & Interfaces, 2020, 12, 49245-49251.	8.0	3
4	Thermally Induced Crossover from 2D to 1D Behavior in an Array of Atomic Wires: Silicon Dangling-Bond Solitons in Si(553)-Au. Physical Review Letters, 2020, 124, 016102.	7.8	14
5	The role of ligands in electron transport in nanocrystal solids. Nanoscale, 2020, 12, 23028-23035.	5.6	10
6	Synthesis of super bright indium phosphide colloidal quantum dots through thermal diffusion. Communications Chemistry, 2019, 2, .	4.5	20
7	Brightly Luminescent Core/Shell Nanoplatelets with Continuously Tunable Optical Properties. Advanced Optical Materials, 2019, 7, 1801478.	7.3	33
8	Atomic Layer Epitaxy of Aluminum Nitride: Unraveling the Connection between Hydrogen Plasma and Carbon Contamination. ACS Applied Materials & Interfaces, 2018, 10, 20142-20149.	8.0	11
9	An intrinsic growth instability in isotropic materials leads to quasi-two-dimensional nanoplatelets. Nature Materials, 2017, 16, 743-748.	27.5	193
10	Ripening of Semiconductor Nanoplatelets. Nano Letters, 2017, 17, 6870-6877.	9.1	56
11	A picture worth a thousand bytes. Nature Nanotechnology, 2016, 11, 919-920.	31.5	1
12	Energy splitting of image states induced by the surface potential corrugation of $\ln\text{As}$. Physical Review B, 2015, 92, .	11.9	11
13	Reconfigurable Quantum-Dot Molecules Created by Atom Manipulation. Physical Review Letters, 2015, 115, 076803.	7.8	13
14	Gating a single-molecule transistor with individual atoms. Nature Physics, 2015, 11, 640-644.	16.7	67
15	Probing the electronic band structure of ferromagnets with spin injection and extraction. Physical Review B, 2014, 90, .	3.2	8
16	Quantum dots with single-atom precision. Nature Nanotechnology, 2014, 9, 505-508.	31.5	77
17	Microscopic Theory of Cation Exchange in CdSe Nanocrystals. Physical Review Letters, 2014, 113, 156803.	7.8	64
18	Nonpolar GaN films on high-index silicon: Lattice matching by design. Physical Review B, 2013, 87, .	3.2	7

#	ARTICLE	IF	CITATIONS
19	Coherent Clustering of GdN in Epitaxial GaN:Gd Thin Film. Materials Research Society Symposia Proceedings, 2013, 1554, 1.	0.1	1
20	Growth of wurtzite InN on bulk In ₂ O ₃ (111) wafers. Applied Physics Letters, 2012, 101, .	3.3	16
21	Epitaxial Interfaces between Crystallographically Mismatched Materials. Physical Review Letters, 2011, 107, 026102.	7.8	15
22	â€œCube-on-hexagonâ€ orientation relationship for Fe on GaN. Physical Review Letters, 2011, 107, 026102.	3.2	15
23	The missing link in bcc/hcp epitaxy. Physical Review B, 2010, 82, . Intrinsic magnetism at silicon surfaces. Nature Communications, 2010, 1, 58.	12.8	144
24	Conversion of Worm-Shaped Antiferromagnetic Hematite to Ferrimagnetic Spherical Barium-Ferrite Nanoparticles for Particulate Recording Media. IEEE Magnetics Letters, 2010, 1, 4500204-4500204.	1.1	12
25	Structure and energetics of Si on Ge(111). Physical Review B, 2009, 80, .	11.6	62
26	Conversion of Nano-Sized Spherical Magnetite to Spherical Barium Ferrite Nanoparticles for High Density Particulate Recording Media. IEEE Transactions on Magnetics, 2009, 45, 3590-3593.	2.1	10
27	Doped Nanocrystals. Science, 2008, 319, 1776-1779.	12.6	1,324
28	Stabilization mechanisms of polar surfaces: ZnO surfaces. Physical Review B, 2008, 78, .	3.2	37
29	Doping semiconductor nanocrystals. Nature, 2005, 436, 91-94.	27.8	1,491
30	Tailoring ferromagnetic chalcopyrites. Nature Materials, 2004, 3, 410-414.	27.5	151
31	Initial stages of Mn adsorption on Ge(111). Physical Review B, 2004, 70, .	3.2	56
32	First-principles study of nucleation, growth, and interface structure of Fe/GaAs. Physical Review B, 2002, 65, .	3.2	68
33	Self-Compensation in Manganese-Doped Ferromagnetic Semiconductors. Physical Review Letters, 2002, 89, 227201.	7.8	156
34	Ligand Control of Electron Transport in Nanocrystal Solids. , 0, , .		0