

# Steven C Erwin

## List of Publications by Year in descending order

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34  
papers

4,177  
citations

471509

17  
h-index

395702

33  
g-index

34  
all docs

34  
docs citations

34  
times ranked

6029  
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping semiconductor nanocrystals. Nature, 2005, 436, 91-94.	27.8	1,491
2	Doped Nanocrystals. Science, 2008, 319, 1776-1779.	12.6	1,324
3	An intrinsic growth instability in isotropic materials leads to quasi-two-dimensional nanoplatelets. Nature Materials, 2017, 16, 743-748.	27.5	193
4	Self-Compensation in Manganese-Doped Ferromagnetic Semiconductors. Physical Review Letters, 2002, 89, 227201.	7.8	156
5	Tailoring ferromagnetic chalcopyrites. Nature Materials, 2004, 3, 410-414.	27.5	151
6	Intrinsic magnetism at silicon surfaces. Nature Communications, 2010, 1, 58.	12.8	144
7	Quantum dots with single-atom precision. Nature Nanotechnology, 2014, 9, 505-508.	31.5	77
8	First-principles study of nucleation, growth, and interface structure of Fe/GaAs. Physical Review B, 2002, 65, .	3.2	68
9	Gating a single-molecule transistor with individual atoms. Nature Physics, 2015, 11, 640-644.	16.7	67
10	Microscopic Theory of Cation Exchange in CdSe Nanocrystals. Physical Review Letters, 2014, 113, 156803.	7.8	64
11	Structure and energetics of $\text{Si}$ on $\text{Ge}(111)$ . Physical Review B, 2009, 80, .		
12	Initial stages of Mn adsorption on $\text{Ge}(111)$ . Physical Review B, 2004, 70, .	3.2	56
13	Ripening of Semiconductor Nanoplatelets. Nano Letters, 2017, 17, 6870-6877.	9.1	56
14	Stabilization mechanisms of polar surfaces: ZnO surfaces. Physical Review B, 2008, 78, .	3.2	37
15	Brightly Luminescent Core/Shell Nanoplatelets with Continuously Tunable Optical Properties. Advanced Optical Materials, 2019, 7, 1801478.	7.3	33
16	Halide-Assisted Synthesis of Cadmium Chalcogenide Nanoplatelets. Chemistry of Materials, 2020, 32, 566-574.	6.7	29
17	Synthesis of super bright indium phosphide colloidal quantum dots through thermal diffusion. Communications Chemistry, 2019, 2, .	4.5	20
18	Growth of wurtzite InN on bulk $\text{In}_2\text{O}_3(111)$ wafers. Applied Physics Letters, 2012, 101, .	3.3	16

#	ARTICLE	IF	CITATIONS
19	Atomic layer epitaxy on hexagonal c-plane orientation relationship for Fe on GaN. <a href="#">Physical Review B, 2010, 82, .</a> $\text{GaN}$	3.2	15
20	The missing link in bcc/hcp epitaxy. <a href="#">Physical Review B, 2010, 82, .</a> Epitaxial Interfaces between Crystallographically Mismatched Materials. <a href="#">Physical Review Letters, 2011, 107, 026102.</a>	7.8	15
21	Thermally Induced Crossover from 2D to 1D Behavior in an Array of Atomic Wires: Silicon Dangling-Bond Solitons in Si(553)-Au. <a href="#">Physical Review Letters, 2020, 124, 016102.</a>	7.8	14
22	Reconfigurable Quantum-Dot Molecules Created by Atom Manipulation. <a href="#">Physical Review Letters, 2015, 115, 076803.</a>	7.8	13
23	Conversion of Worm-Shaped Antiferromagnetic Hematite to Ferrimagnetic Spherical Barium-Ferrite Nanoparticles for Particulate Recording Media. <a href="#">IEEE Magnetics Letters, 2010, 1, 4500204-4500204.</a>	1.1	12
24	Atomic Layer Epitaxy of Aluminum Nitride: Unraveling the Connection between Hydrogen Plasma and Carbon Contamination. <a href="#">ACS Applied Materials &amp; Interfaces, 2018, 10, 20142-20149.</a>	8.0	11
25	Conversion of Nano-Sized Spherical Magnetite to Spherical Barium Ferrite Nanoparticles for High Density Particulate Recording Media. <a href="#">IEEE Transactions on Magnetics, 2009, 45, 3590-3593.</a>	2.1	10
26	The role of ligands in electron transport in nanocrystal solids. <a href="#">Nanoscale, 2020, 12, 23028-23035.</a>	5.6	10
27	Energy splitting of image states induced by the surface potential corrugation of InAs. <a href="#">Physical Review B, 2015, 92, .</a>	11.9	11
28	Probing the electronic band structure of ferromagnets with spin injection and extraction. <a href="#">Physical Review B, 2014, 90, .</a>	3.2	8
29	Nonpolar GaN films on high-index silicon: Lattice matching by design. <a href="#">Physical Review B, 2013, 87, .</a>	3.2	7
30	Topological states in dimerized quantum-dot chains created by atom manipulation. <a href="#">Physical Review B, 2022, 105, .</a>	3.2	4
31	Atomic Layer Epitaxy of III-Nitrides: A Microscopic Model of Homoepitaxial Growth. <a href="#">ACS Applied Materials &amp; Interfaces, 2020, 12, 49245-49251.</a>	8.0	3
32	Coherent Clustering of GdN in Epitaxial GaN:Gd Thin Film. <a href="#">Materials Research Society Symposia Proceedings, 2013, 1554, 1.</a>	0.1	1
33	A picture worth a thousand bytes. <a href="#">Nature Nanotechnology, 2016, 11, 919-920.</a>	31.5	1
34	Ligand Control of Electron Transport in Nanocrystal Solids. , 0, , .		0