David C Smith

List of Publications by Year
in descending order

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Version: 2024-02-01

50 papers	3,338 citations	471509 17 h-index	214800 47 g-index
52 all docs	52 docs citations	52 times ranked	4619 citing authors

#	Article	IF	Citations
1	Growth of nanowire superlattice structures for nanoscale photonics and electronics. Nature, 2002, 415, 617-620.	27.8	2,562
2	Indenyl- and Fluorenyl-Functionalized N-Heterocyclic Carbene Complexes of Titanium, Zirconium, Vanadium, Chromium, and Yttrium. Organometallics, 2007, 26, 3762-3770.	2.3	96
3	Electrodeposition of metals from supercritical fluids. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14768-14772.	7.1	70
4	Morphology control via dual solvent crystallization for high-mobility functionalized pentacene-blend thin film transistors. Journal of Materials Chemistry, 2011, 21, 11232.	6.7	40
5	Ordered mesoporous silica films with pores oriented perpendicular to a titanium nitride substrate. Physical Chemistry Chemical Physics, 2015, 17, 4763-4770.	2.8	39
6	Electrodeposition of germanium from supercritical fluids. Physical Chemistry Chemical Physics, 2012, 14, 1517-1528.	2.8	33
7	Raman Spectroscopy of Optical Transitions and Vibrational Energies of âˆ¼1 nm HgTe Extreme Nanowires within Single Walled Carbon Nanotubes. ACS Nano, 2014, 8, 9044-9052.	14.6	33
8	Deposition in supercritical fluids: from silver to semiconductors. Journal of Materials Chemistry, 2009, 19, 8560.	6.7	25
9	The electrodeposition of copper from supercritical CO2/acetonitrile mixtures and from supercritical trifluoromethane. Physical Chemistry Chemical Physics, 2010, 12, 11744.	2.8	25
10	Probing Excitons, Trions, and Dark Excitons in Monolayer WS₂ Using Resonance Raman Spectroscopy. Nano Letters, 2018, 18, 1428-1434.	9.1	25
11	Superposition of intra- and inter-layer excitons in twistronic MoSe₂/WSe₂ bilayers probed by resonant Raman scattering. 2D Materials, 2021, 8, 035009.	4.4	25
12	Electrodeposition of mesoporous CdTe films with the aid of citric acid from lyotropic liquid crystalline phases. Journal of Materials Chemistry, 2006, 16, 3207.	6.7	24
13	Exploration of the Smallest Diameter Tin Nanowires Achievable with Electrodeposition: Sub 7 nm Sn Nanowires Produced by Electrodeposition from a Supercritical Fluid. Nano Letters, 2018, 18, 941-947.	9.1	21
14	A non-oxide solâ€“gel route to synthesise silicon imidonitride monolithic gels and high surface area aerogels. Chemical Communications, 2008, , 5304.	4.1	20
15	Continuous Flow Supercritical Chemical Fluid Deposition of Optoelectronic Quality CdS. Advanced Materials, 2009, 21, 4115-4119.	21.0	20
16	A route to diffusion embedding of CdSe/CdS quantum dots in fluoropolymer microparticles. Green Chemistry, 2011, 13, 2696.	9.0	20
17	Supercritical Chemical Fluid Deposition of InP and InAs. Chemistry of Materials, 2010, 22, 4246-4253.	6.7	18
18	A Versatile Precursor System for Supercritical Fluid Electrodeposition of Mainâ€Group Materials. Chemistry - A European Journal, 2016, 22, 302-309.	3.3	17

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19	Theory of hybrid photorefractive plasmonic liquid crystal cells. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1874.	2.1	16
20	Development of a Nanowire-Based Test Bed Device for Molecular Electronics Applications. Analytical Chemistry, 2006, 78, 951-955.	6.5	15
21	Towards a 3D GeSbTe phase change memory with integrated selector by non-aqueous electrodeposition. Faraday Discussions, 2019, 213, 339-355.	3.2	14
22	Photorefractive control of surface plasmon polaritons in a hybrid liquid crystal cell. Optics Letters, 2012, 37, 2436.	3.3	13
23	Hybrid liquid crystal photorefractive system for the photorefractive coupling of surface plasmon polaritons. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1947.	2.1	12
24	Supercritical Fluid Electrodeposition of Elemental Germanium onto Titanium Nitride Substrates. Journal of the Electrochemical Society, 2015, 162, D619-D624.	2.9	12
25	Phase-Change Memory by GeSbTe Electrodeposition in Crossbar Arrays. ACS Applied Electronic Materials, 2021, 3, 3610-3618.	4.3	12
26	Surface modification and porosimetry of vertically aligned hexagonal mesoporous silica films. RSC Advances, 2016, 6, 113432-113441.	3.6	11
27	Electrodeposition of tin nanowires from a dichloromethane based electrolyte. RSC Advances, 2018, 8, 24013-24020.	3.6	11
28	Chemical Vapor Deposition of GaP and GaAs Thin Films From [ⁿBu₂Ga(Î¼-E^tBu₂)₂GaⁿBu (E = P or As) and Ga(P^tBu₂)₃. Chemistry of Materials, 2011, 23, 5217-5222.	6.7	10
29	Observation of intravalley phonon scattering of 2s excitons in MoSe₂ and WSe₂ monolayers. 2D Materials, 2020, 7, 045008.	4.4	10
30	Measurements of the Population Lifetime of D Band and Gâ€² Band Phonons in Single-Walled Carbon Nanotubes. Nano Letters, 2013, 13, 416-422.	9.1	9
31	Electrodeposition of Protocrystalline Germanium from Supercritical Difluoromethane. ChemElectroChem, 2016, 3, 726-733.	3.4	9
32	Electrodeposition of GeSbTe-Based Resistive Switching Memory in Crossbar Arrays. Journal of Physical Chemistry C, 2021, 125, 26247-26255.	3.1	9
33	Application of Carbon Nanotube AFM Probes to the Characterization of Mesoporous Materials. Small, 2005, 1, 406-408.	10.0	8
34	Supercritical fluid electrodeposition, structural and electrical characterisation of tellurium nanowires. RSC Advances, 2017, 7, 40720-40726.	3.6	8
35	Atomic and electronic structure of two-dimensional Mo_{(1â^’} _x)W _x S₂ alloys. JPhys Materials, 2021, 4, 025004.	4.2	7
36	Nanotemplated lead telluride thin films. Microporous and Mesoporous Materials, 2009, 118, 403-407.	4.4	5

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37	Electrodeposition of Crystalline HgTe from a Non-Aqueous Plating Bath. Journal of the Electrochemical Society, 2018, 165, D802-D807.	2.9	5
38	Excited Rydberg states in MoSe₂/WSe₂ heterostructures. 2D Materials, 2021, 8, 035047.	4.4	5
39	Supercritical Chemical Fluid Deposition of High Quality Compound Semiconductors. ECS Transactions, 2009, 25, 1193-1197.	0.5	4
40	Coherence lifetime broadened optical transitions in a 2 atom diameter HgTe nanowire: a temperature dependent resonance Raman study. RSC Advances, 2016, 6, 95387-95395.	3.6	4
41	Metal-Catalyst-Free Growth of Silica Nanowires and Carbon Nanotubes Using Ge Nanostructures. Japanese Journal of Applied Physics, 2011, 50, 04DN02.	1.5	3
42	Insights into hyperbolic phonon polaritons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>h</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>BN</ using Raman scattering from encapsulated transition metal dichalcogenide layers. Physical Review B, 2021, 104, .	3.2	3
43	Growth of Carbon Nanotubes on HfO2towards Highly Sensitive Nano-Sensors. Japanese Journal of Applied Physics, 2010, 49, 04DN11.	1.5	2
44	Separation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>G</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>G</mml:mi><mml:mo>â^’</mml:mo></mml:msup></mml:math>phonon population dynamics in semiconducting single-walled carbon nanotubes as a function of diameter and temperature. Physical Review B, 2013, 87, .	3.2	2
45	Plastic Reactor Suitable for High Pressure and Supercritical Fluid Electrochemistry. Journal of the Electrochemical Society, 2017, 164, H375-H381.	2.9	2
46	Confining the growth of mesoporous silica films into nanospaces: towards surface nanopatterning. Nanoscale Advances, 0, , .	4.6	2
47	Resonance Raman Spectroscopy of Extreme Nanowires and Other 1D Systems. Journal of Visualized Experiments, 2016, , .	0.3	1
48	Time-resolved optical response in BSCCO-2212. , 1998, 3481, 68.		0
49	Optical Properties of Nanostructured Mesoporous Semiconductor Films. Materials Research Society Symposia Proceedings, 2004, 822, S5.6.1.	0.1	0
50	The Effects of Hydrogen Annealing on Carbon Nanotube Field-Effect Transistors. Nanomaterials, 2021, 11, 2481.	4.1	0