David C Smith

List of Publications by Year
in descending order

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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	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
2	Atomic and electronic structure of two-dimensional Mo_{(1â^'} _x)W _x S₂ alloys. JPhys Materials, 2021, 4, 025004.	4.2	7
3	Excited Rydberg states in MoSe₂/WSe₂ heterostructures. 2D Materials, 2021, 8, 035047.	4.4	5
4	Phase-Change Memory by GeSbTe Electrodeposition in Crossbar Arrays. ACS Applied Electronic Materials, 2021, 3, 3610-3618.	4.3	12
5	The Effects of Hydrogen Annealing on Carbon Nanotube Field-Effect Transistors. Nanomaterials, 2021, 11, 2481.	4.1	0
6	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
7	Electrodeposition of GeSbTe-Based Resistive Switching Memory in Crossbar Arrays. Journal of Physical Chemistry C, 2021, 125, 26247-26255.	3.1	9
8	Observation of intravalley phonon scattering of 2s excitons in MoSe₂ and WSe₂ monolayers. 2D Materials, 2020, 7, 045008.	4.4	10
9	Towards a 3D GeSbTe phase change memory with integrated selector by non-aqueous electrodeposition. Faraday Discussions, 2019, 213, 339-355.	3.2	14
10	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
11	Probing Excitons, Trions, and Dark Excitons in Monolayer WS₂ Using Resonance Raman Spectroscopy. Nano Letters, 2018, 18, 1428-1434.	9.1	25
12	Electrodeposition of Crystalline HgTe from a Non-Aqueous Plating Bath. Journal of the Electrochemical Society, 2018, 165, D802-D807.	2.9	5
13	Electrodeposition of tin nanowires from a dichloromethane based electrolyte. RSC Advances, 2018, 8, 24013-24020.	3.6	11
14	Plastic Reactor Suitable for High Pressure and Supercritical Fluid Electrochemistry. Journal of the Electrochemical Society, 2017, 164, H375-H381.	2.9	2
15	Supercritical fluid electrodeposition, structural and electrical characterisation of tellurium nanowires. RSC Advances, 2017, 7, 40720-40726.	3.6	8
16	Electrodeposition of Protocrystalline Germanium from Supercritical Difluoromethane. ChemElectroChem, 2016, 3, 726-733.	3.4	9
17	A Versatile Precursor System for Supercritical Fluid Electrodeposition of Mainâ€Group Materials. Chemistry - A European Journal, 2016, 22, 302-309.	3.3	17
18	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

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19	Surface modification and porosimetry of vertically aligned hexagonal mesoporous silica films. RSC Advances, 2016, 6, 113432-113441.	3.6	11
20	Resonance Raman Spectroscopy of Extreme Nanowires and Other 1D Systems. Journal of Visualized Experiments, 2016, , .	0.3	1
21	Supercritical Fluid Electrodeposition of Elemental Germanium onto Titanium Nitride Substrates. Journal of the Electrochemical Society, 2015, 162, D619-D624.	2.9	12
22	Ordered mesoporous silica films with pores oriented perpendicular to a titanium nitride substrate. Physical Chemistry Chemical Physics, 2015, 17, 4763-4770.	2.8	39
23	Raman Spectroscopy of Optical Transitions and Vibrational Energies of â¼1 nm HgTe Extreme Nanowires within Single Walled Carbon Nanotubes. ACS Nano, 2014, 8, 9044-9052.	14.6	33
24	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
25	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
26	Photorefractive control of surface plasmon polaritons in a hybrid liquid crystal cell. Optics Letters, 2012, 37, 2436.	3.3	13
27	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
28	Electrodeposition of germanium from supercritical fluids. Physical Chemistry Chemical Physics, 2012, 14, 1517-1528.	2.8	33
29	Chemical Vapor Deposition of GaP and GaAs Thin Films From [ⁿBu₂Ga(Î¼-E^tBu₂)₂GaⁿBu₂] (E = P or As) and Ga(P^tBu₂)₃. Chemistry of Materials, 2011, 23, 5217-5222.	6.7	10
30	A route to diffusion embedding of CdSe/CdS quantum dots in fluoropolymer microparticles. Green Chemistry, 2011, 13, 2696.	9.0	20
31	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
32	Theory of hybrid photorefractive plasmonic liquid crystal cells. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1874.	2.1	16
33	Metal-Catalyst-Free Growth of Silica Nanowires and Carbon Nanotubes Using Ge Nanostructures. Japanese Journal of Applied Physics, 2011, 50, 04DN02.	1.5	3
34	Growth of Carbon Nanotubes on HfO2towards Highly Sensitive Nano-Sensors. Japanese Journal of Applied Physics, 2010, 49, 04DN11.	1.5	2
35	Supercritical Chemical Fluid Deposition of InP and InAs. Chemistry of Materials, 2010, 22, 4246-4253.	6.7	18
36	The electrodeposition of copper from supercritical CO2/acetonitrile mixtures and from supercritical trifluoromethane. Physical Chemistry Chemical Physics, 2010, 12, 11744.	2.8	25

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37	Supercritical Chemical Fluid Deposition of High Quality Compound Semiconductors. ECS Transactions, 2009, 25, 1193-1197.	0.5	4
38	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
39	Continuous Flow Supercritical Chemical Fluid Deposition of Optoelectronic Quality CdS. Advanced Materials, 2009, 21, 4115-4119.	21.0	20
40	Nanotemplated lead telluride thin films. Microporous and Mesoporous Materials, 2009, 118, 403-407.	4.4	5
41	Deposition in supercritical fluids: from silver to semiconductors. Journal of Materials Chemistry, 2009, 19, 8560.	6.7	25
42	A non-oxide solâ€“gel route to synthesise silicon imidonitride monolithic gels and high surface area aerogels. Chemical Communications, 2008, , 5304.	4.1	20
43	Indenyl- and Fluorenyl-Functionalized N-Heterocyclic Carbene Complexes of Titanium, Zirconium, Vanadium, Chromium, and Yttrium. Organometallics, 2007, 26, 3762-3770.	2.3	96
44	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
45	Development of a Nanowire-Based Test Bed Device for Molecular Electronics Applications. Analytical Chemistry, 2006, 78, 951-955.	6.5	15
46	Application of Carbon Nanotube AFM Probes to the Characterization of Mesoporous Materials. Small, 2005, 1, 406-408.	10.0	8
47	Optical Properties of Nanostructured Mesoporous Semiconductor Films. Materials Research Society Symposia Proceedings, 2004, 822, S5.6.1.	0.1	0
48	Growth of nanowire superlattice structures for nanoscale photonics and electronics. Nature, 2002, 415, 617-620.	27.8	2,562
49	Time-resolved optical response in BSCCO-2212. , 1998, 3481, 68.		0
50	Confining the growth of mesoporous silica films into nanospaces: towards surface nanopatterning. Nanoscale Advances, 0, , .	4.6	2