

John C Angus

List of Publications by Year in descending order

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43
papers

2,694
citations

361413

20
h-index

265206

42
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45
all docs

45
docs citations

45
times ranked

2204
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge Transfer Equilibria Between Diamond and an Aqueous Oxygen Electrochemical Redox Couple. <i>Science</i> , 2007, 318, 1424-1430.	12.6	581
2	Hydrogen and Oxygen Evolution on Boron-Doped Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 1996, 143, L133-L136.	2.9	392
3	Growth of Diamond Seed Crystals by Vapor Deposition. <i>Journal of Applied Physics</i> , 1968, 39, 2915-2922.	2.5	378
4	Diamond nucleation by hydrogenation of the edges of graphitic precursors. <i>Nature</i> , 1993, 364, 607-610.	27.8	271
5	Orientation relationship between chemical vapor deposited diamond and graphite substrates. <i>Journal of Applied Physics</i> , 1993, 73, 711-715.	2.5	101
6	Voltammetry Studies of Single-Crystal and Polycrystalline Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 1999, 146, 2959-2964.	2.9	100
7	Growth of boron-doped diamond seed crystals by vapor deposition. <i>Journal of Applied Physics</i> , 1973, 44, 1428-1434.	2.5	97
8	Twinning and faceting in early stages of diamond growth by chemical vapor deposition. <i>Journal of Materials Research</i> , 1992, 7, 3001-3009.	2.6	90
9	Kinetics of carbon deposition on diamond powder. <i>Journal of Applied Physics</i> , 1976, 47, 4746-4754.	2.5	80
10	Structural analysis of hydrogenated diamond-like carbon films from electron energy loss spectroscopy. <i>Journal of Materials Research</i> , 1990, 5, 2378-2386.	2.6	72
11	Hydrogen binding and diffusion in diamond. <i>Journal of Materials Research</i> , 1992, 7, 689-695.	2.6	62
12	Heteroepitaxially grown diamond on c-BN {111} surface. <i>Applied Physics Letters</i> , 1993, 63, 1336-1338.	3.3	51
13	The Electrochemistry of Boron-Doped Diamond Films on Single Crystal Diamond in Li ⁺ -Based Solid Polymer Electrolyte in Ultrahigh Vacuum. <i>Journal of the American Chemical Society</i> , 1997, 119, 7875-7876.	13.7	51
14	Hydrogenation of the {10.10.10} graphite edge: structural considerations from band calculations. <i>The Journal of Physical Chemistry</i> , 1992, 96, 10978-10982.	2.9	43
15	Electrodeposition of GaAs from Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 1992, 139, 3480-3488.	2.9	41
16	Heteroepitaxy of diamond on c-BN: Growth mechanisms and defect characterization. <i>Journal of Materials Research</i> , 1994, 9, 1849-1865.	2.6	38
17	Diamond synthesis by chemical vapor deposition: The early years. <i>Diamond and Related Materials</i> , 2014, 49, 77-86.	3.9	35
18	Hydrogen atom recombination on tungsten and diamond in hot filament assisted deposition of diamond. <i>Journal of Applied Physics</i> , 1993, 74, 5981-5989.	2.5	33

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19	Electron energy-loss spectral analysis of diamond and diamond-like carbon films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 2226-2230.	2.1	30
20	Electronic era elusive. Nature, 1994, 370, 601-601.	27.8	21
21	Tribo-electric charging of dielectric solids of identical composition. Journal of Applied Physics, 2018, 123, .	2.5	15
22	Contact charge transfer between inorganic dielectric solids of different surface roughness. Journal of Electrostatics, 2019, 101, 103359.	1.9	15
23	Potential-pH diagrams for complex systems. Journal of Applied Electrochemistry, 1987, 17, 1-21.	2.9	14
24	Synthesis of bulk polycrystalline indium nitride at subatmospheric pressures. Journal of Materials Research, 1999, 14, 2411-2417.	2.6	13
25	Controlled Electroplating Through Gelatin Films. Journal of the Electrochemical Society, 1986, 133, 1152-1160.	2.9	8
26	Morphology of twinned diamond particles. Journal of Materials Research, 1995, 10, 3037-3040.	2.6	8
27	Characterization Of Bulk, Polycrystalline Indium Nitride Grown At Sub-Atmospheric Pressures. Materials Research Society Symposia Proceedings, 1997, 482, 593.	0.1	7
28	Size-dependent electron chemical potential: Effect on particle charging. Journal of Electrostatics, 2013, 71, 1055-1060.	1.9	6
29	Turbulent transport measurements with a laser Doppler velocimeter. Optical and Quantum Electronics, 1973, 5, 119-128.	3.3	5
30	Growth and Raman Spectroscopy of Single Crystal ZnGeN ₂ Rods Grown from a Molten Zn/Ge Alloy. Materials Research Society Symposia Proceedings, 2007, 1040, 1.	0.1	5
31	A Pressurized Thermobalance Apparatus for Use at Extreme Conditions. Industrial & Engineering Chemistry Fundamentals, 1979, 18, 416-418.	0.7	4
32	Nucleation and Growth Processes During The Chemical Vapor Deposition of Diamond. Materials Research Society Symposia Proceedings, 1994, 349, 385.	0.1	4
33	Growth of Bulk, Polycrystalline Gallium and Indium Nitride at Sub-Atmospheric Pressures. Materials Research Society Symposia Proceedings, 1997, 468, 149.	0.1	4
34	Electron Number Diagrams: A New Phase Diagram for Complex Redox Systems. Journal of the Electrochemical Society, 1987, 134, 1374-1383.	2.9	2
35	Relationship of Processing Conditions to Growth Rate and Quality of Diamond Grown by Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 1995, 383, 45.	0.1	2
36	Growth of Oriented Thick Films of Gallium Nitride From the Melt. Materials Research Society Symposia Proceedings, 1998, 537, 1.	0.1	2

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37	Boron-Doped Diamond Films for Electrochemical Applications. Materials Research Society Symposia Proceedings, 1998, 555, 217.	0.1	2
38	Nucleation and Growth Processes During the Chemical Vapor Deposition of Diamond. Materials Research Society Symposia Proceedings, 1994, 363, 127.	0.1	1
39	Synthesis of Bulk, Polycrystalline Gallium Nitride at Low Pressures. Materials Research Society Symposia Proceedings, 1996, 449, 47.	0.1	1
40	Electrochemical Charge Transfer to Diamond and Other Materials. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	1
41	Microelectromechanics. Science, 1998, 281, 1143-1143.	12.6	1
42	Contact Charge Transfer between Nominally Identical Materials. Annalen Der Physik, 2021, 533, 2000571.	2.4	0
43	Dangerous Mixture. Science, 1998, 281, 783-783.	12.6	0