Neil A Fox

List of Publications by Year
in descending order

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63 papers	1,279 citations	430754 18 h-index	377752 34 g-index
65 all docs	65 docs citations	65 times ranked	1805 citing authors

#	Article	IF	Citations
1	Synthesis of Aligned Arrays of Ultrathin ZnO Nanotubes on a Si Wafer Coated with a Thin ZnO Film. Advanced Materials, 2005, 17, 2477-2481.	11.1	329
2	Field emission conduction mechanisms in chemical vapor deposited diamond and diamondlike carbon films. Applied Physics Letters, 1998, 72, 2182-2184.	1.5	63
3	Field emission from chemical vapor deposited diamond and diamond-like carbon films: Investigations of surface damage and conduction mechanisms. Journal of Applied Physics, 1998, 84, 1618-1625.	1.1	54
4	Field emission properties of diamond films of different qualities. Applied Physics Letters, 1997, 71, 2337-2339.	1.5	48
5	A Perspective on the Application of Spatially Resolved ARPES for 2D Materials. Nanomaterials, 2018, 8, 284.	1.9	47
6	Surface structure of few layer graphene. Carbon, 2018, 136, 255-261.	5.4	44
7	Ultra-thin metal films for enhanced solar absorption. Nano Energy, 2012, 1, 777-782.	8.2	43
8	Experimental and Modeling Studies of B Atom Number Density Distributions in Hot Filament Activated B2H6/H2 and B2H6/CH4/H2 Gas Mixtures. Journal of Physical Chemistry A, 2006, 110, 2868-2875.	1.1	41
9	The effect of diamond surface termination species upon field emission properties. Diamond and Related Materials, 1998, 7, 671-676.	1.8	39
10	Patterned diamond particle films. Journal of Applied Physics, 2000, 87, 8187-8191.	1.1	37
11	Hydrothermal Growth of ZnO Nanorods Aligned Parallel to the Substrate Surface. Journal of Physical Chemistry C, 2008, 112, 9234-9239.	1.5	34
12	Photoelectron emission from lithiated diamond. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2209-2222.	0.8	30
13	Growth of nanostructured ZnO thin films on sapphire. Applied Physics A: Materials Science and Processing, 2007, 89, 49-55.	1.1	26
14	A review of surface functionalisation of diamond for thermionic emission applications. Carbon, 2021, 171, 532-550.	5.4	26
15	Through-mask anodization of titania dot- and pillar-like nanostructures on bulk Ti substrates using a nanoporous anodic alumina mask. Nanotechnology, 2009, 20, 135305.	1.3	25
16	Impact of Sb and Na Doping on the Surface Electronic Landscape of Cu₂ZnSnS₄ Thin Films. ACS Energy Letters, 2018, 3, 2977-2982.	8.8	24
17	Incorporation of lithium and nitrogen into CVD diamond thin films. Diamond and Related Materials, 2014, 44, 1-7.	1.8	23
18	Electronic Structure Tunability of Diamonds by Surface Functionalization. Journal of Physical Chemistry C, 2019, 123, 4168-4177.	1.5	20

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19	Electrochemical Properties of Two Dimensional Assemblies of Insulating Diamond Particles. Langmuir, 2011, 27, 5112-5118.	1.6	17
20	Investigations of the co-doping of boron and lithium into CVD diamond thin films. Diamond and Related Materials, 2017, 76, 115-122.	1.8	17
21	Production and characterisation of amorphic diamond films produced by pulsed laser ablation of graphite. Diamond and Related Materials, 1997, 6, 569-573.	1.8	16
22	Field-emission studies of boron-doped CVD diamond films following surface treatments. Diamond and Related Materials, 1997, 6, 1135-1142.	1.8	14
23	Properties of electron field emitters prepared by selected area deposition of CVD diamond carbon films. Diamond and Related Materials, 2000, 9, 1263-1269.	1.8	14
24	Structure and electronic properties of tin monoxide (SnO) and lithiated SnO terminated diamond (1 0) Tj ETQq0 0 0 rgBT /Overlock 10 T 149962.	3.1	14
25	A study on the formation of titania nanopillars during porous anodic alumina through-mask anodization of Ti substrates. Electrochimica Acta, 2010, 56, 203-210.	2.6	13
26	Field emission properties of diode devices based on amorphic diamond-Si heterojunctions. Journal of Applied Physics, 1997, 81, 1505-1508.	1.1	12
27	Toward a Single ZnO Nanowire Homojunction. Journal of Physical Chemistry C, 2010, 114, 21338-21341.	1.5	12
28	Correlation between crystal purity and the charge density wave in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mo>’ Physical Review Materials, 2020, 4, .	3.1	12
29	Deposition of CVD diamond onto boron carbide substrates. Diamond and Related Materials, 1997, 6, 450-455.	1.8	11
30	Imaging the Predicted Isomerism of Oligo(aniline)s: A Scanning Tunneling Microscopy Study. Small, 2015, 11, 3430-3434.	5.2	11
31	Microscopic insight into the single step growth of in-plane heterostructures between graphene and hexagonal boron nitride. Nano Research, 2019, 12, 675-682.	5.8	11
32	Spectral functions of CVD grown MoS2 monolayers after chemical transfer onto Au surface. Applied Surface Science, 2020, 532, 147390.	3.1	11
33	Growth and field emission properties of multiply twinned diamond films with quintuplet wedges. Applied Physics Letters, 1996, 69, 2825-2827.	1.5	10
34	Beta Radiation Enhanced Thermionic Emission from Diamond Thin Films. Frontiers in Mechanical Engineering, 2017, 3, .	0.8	10
35	Mapping Shunting Paths at the Surface of Cu2ZnSn(S,Se)4 Films via Energy-Filtered Photoemission Microscopy. IScience, 2018, 9, 36-46.	1.9	10
36	A theoretical study of substitutional boronâ€“nitrogen clusters in diamond. Journal of Physics Condensed Matter, 2018, 30, 425501.	0.7	10

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37	Tellurium-doped lanthanum manganite as catalysts for the oxygen reduction reaction. MRS Communications, 2017, 7, 193-198.	0.8	9
38	The Li-adsorbed C(100)-(1x1):O Diamond Surface. Materials Research Society Symposia Proceedings, 2011, 1282, 163.	0.1	8
39	Graphene-diamond junction photoemission microscopy and electronic interactions. Nano Express, 2020, 1, 020011.	1.2	8
40	Mapping the Energetics of Defect States in Cu₂ZnSnS₄ films and the Impact of Sb Doping. ACS Applied Energy Materials, 2022, 5, 3933-3940.	2.5	8
41	Electrochemical Modification and Characterization of Topological Insulator Single Crystals. Langmuir, 2019, 35, 2983-2988.	1.6	7
42	Lithium monolayers on single crystal C(100) oxygen-terminated diamond. Materials Research Society Symposia Proceedings, 2011, 1282, 169.	0.1	5
43	Improving the Efficiency of a Thermionic Energy Converter Using Dual Electric Fields and Electron Beaming. Frontiers in Mechanical Engineering, 2017, 3, .	0.8	5
44	Characterisation of thermionic emission current with a laser-heated system. Review of Scientific Instruments, 2019, 90, 045110.	0.6	5
45	Experimental Studies of Electron Affinity and Work Function from Aluminium on Oxidized Diamond (100) and (111) Surfaces. Physica Status Solidi (B): Basic Research, 2021, 258, 2100027.	0.7	5
46	Molybdenum gratings as a highâ€temperature refractory platform for plasmonic heat generators in the infrared. Micro and Nano Letters, 2018, 13, 1325-1328.	0.6	5
47	Measurement of the secondary electron emission from CVD diamond films using phosphor screen detectors. Journal of Instrumentation, 2015, 10, P03004-P03004.	0.5	4
48	Surface Investigation on Electrochemically Deposited Lead on Gold. Surfaces, 2019, 2, 56-68.	1.0	4
49	Correlating Thermionic Emission with Specific Surface Reconstructions in a <100> Hydrogenated Single-Crystal Diamond. ACS Applied Materials & Interfaces, 2020, 12, 26534-26542.	4.0	4
50	Emptyâ€State Band Mapping Using Momentumâ€Resolved Secondary Electron Emission. Advanced Functional Materials, 2021, 31, 2007319.	7.8	4
51	Field emission observed from metal-diamond junctions revealed by atomic force microscopy. Applied Physics Letters, 2007, 90, 242109.	1.5	3
52	Diamond chemical vapor deposition using a zero-total gas flow environment. Diamond and Related Materials, 2020, 109, 108011.	1.8	3
53	A diamond gammavoltaic cell utilizing surface conductivity and its response to different photon interaction mechanisms. Materials Today Energy, 2021, 21, 100688.	2.5	3
54	Modification of the Surface Structure and Electronic Properties of Diamond (100) with Tin as a Surface Termination: A Density Functional Theory Study. Journal of Physical Chemistry C, 2021, 125, 25165-25174.	1.5	3

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55	Anodization study of epitaxial graphene: insights on the oxygen evolution reaction of graphitic materials. Nanotechnology, 2019, 30, 285701.	1.3	2
56	An investigation into the surface termination and near-surface bulk doping of oxygen-terminated diamond with lithium at various annealing temperatures. MRS Advances, 2021, 6, 311-320.	0.5	2
57	Ex situ Ge-doping of CZTS nanocrystals and CZTSSe solar absorber films. Faraday Discussions, 0, 239, 70-84.	1.6	2
58	In-situ Incorporation of Lithium and Nitrogen into CVD Diamond Thin Films. Materials Research Society Symposia Proceedings, 2012, 1511, 1.	0.1	1
59	Spectroscopic insight of low energy electron emission from diamond surfaces. Carbon, 2021, 185, 376-383.	5.4	1
60	Scanning Tunneling Microscopy: Imaging the Predicted Isomerism of Oligo(aniline)s: A Scanning Tunneling Microscopy Study (Small 28/2015). Small, 2015, 11, 3429-3429.	5.2	0
61	Solar thermal characterization of micropatterned high temperature selective surfaces. Journal of Photonics for Energy, 2020, 10, 1.	0.8	0
62	Surface-Alloying during Pb Underpotential Deposition on Au. ECS Meeting Abstracts, 2020, MA2020-02, 1499-1499.	0.0	0
63	Electrodeposition of Au_xAg_{1-X} Alloys from Thiosulfate Solutions. ECS Meeting Abstracts, 2020, MA2020-02, 1495-1495.	0.0	0