

Kane Michael O'Donnell

List of Publications by Year in descending order

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45
papers

2,121
citations

279798

23
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

4055
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions. <i>Small</i> , 2015, 11, 3036-3044.	10.0	567
2	Creating a Stable Oxide at the Surface of Black Phosphorus. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14557-14562.	8.0	318
3	Performance, morphology and photophysics of high open-circuit voltage, low band gap all-polymer solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 332-342.	30.8	115
4	Selective laser melting of Al-12Si alloy: Enhanced densification via powder drying. <i>Additive Manufacturing</i> , 2016, 10, 10-14.	3.0	80
5	Metal-free melem/g-C ₃ N ₄ hybrid photocatalysts for water treatment. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 10-17.	9.4	73
6	Mercury(II) selective sensors based on AlGaIn/GaN transistors. <i>Analytica Chimica Acta</i> , 2016, 943, 1-7.	5.4	71
7	Work function and electron affinity of the fluorine-terminated (100) diamond surface. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	64
8	Stability and Surface Reconstruction of Topological Insulator Bi ₂ Se ₃ on Exposure to Atmosphere. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20413-20419.	3.1	62
9	Nitrogen Terminated Diamond. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500079.	3.7	61
10	Highly chromium contaminant tolerant BaO infiltrated La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathodes for solid oxide fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4870-4874.	2.8	61
11	Diamond Surfaces with Air-Stable Negative Electron Affinity and Giant Electron Yield Enhancement. <i>Advanced Functional Materials</i> , 2013, 23, 5608-5614.	14.9	58
12	Ab initio investigation of lithium on the diamond C(100) surface. <i>Physical Review B</i> , 2010, 82, .	3.2	49
13	Electronic Properties of High-Quality Epitaxial Topological Dirac Semimetal Thin Films. <i>Nano Letters</i> , 2016, 16, 3210-3214.	9.1	47
14	Impact of Surface Functionalization on the Quantum Coherence of Nitrogen-Vacancy Centers in Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13143-13149.	8.0	36
15	Triconstituent co-assembly synthesis of N,S-doped carbon-silica nanospheres with smooth and rough surfaces. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3721-3727.	10.3	35
16	Extremely high negative electron affinity of diamond via magnesium adsorption. <i>Physical Review B</i> , 2015, 92, .	3.2	34
17	Co-Deposition and Poisoning of Chromium and Sulfur Contaminants on La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, F507-F512.	2.9	34
18	Roll-to-Roll Sputter Coating of Aluminum Cathodes for Large-Scale Fabrication of Organic Photovoltaic Devices. <i>Energy Technology</i> , 2015, 3, 428-436.	3.8	31

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19	Photoelectron emission from lithiated diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2209-2222.	1.8	30
20	Revisiting the StÖsber method: Design of nitrogen-doped porous carbon spheres from molecular precursors of different chemical structures. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 55-61.	9.4	30
21	Air-Stable Electron Depletion of Bi ₂ Se ₃ Using Molybdenum Trioxide into the Topological Regime. <i>ACS Nano</i> , 2014, 8, 6400-6406.	14.6	29
22	Formation of a silicon terminated (100) diamond surface. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	28
23	Light Metals on Oxygen-Terminated Diamond (100): Structure and Electronic Properties. <i>Chemistry of Materials</i> , 2015, 27, 1306-1315.	6.7	26
24	An Electrochemical Sensing Platform Based on Liquid-Liquid Microinterface Arrays Formed in Laser-Ablated Glass Membranes. <i>Analytical Chemistry</i> , 2016, 88, 2596-2604.	6.5	26
25	Molecular Doping the Topological Dirac Semimetal Na ₃ Bi across the Charge Neutrality Point with F ₄ TCNQ. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16412-16418.	8.0	21
26	Highly resilient field emission from aligned single-walled carbon nanotube arrays chemically attached to n-type silicon. <i>Journal of Materials Chemistry</i> , 2008, 18, 5753.	6.7	19
27	Effect of Volatile Boron Species on the Electrocatalytic Activity of Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1163-F1170.	2.9	17
28	An X-ray photoelectron spectroscopic perspective for the evolution of O-containing structures in char during gasification. <i>Fuel Processing Technology</i> , 2018, 172, 209-215.	7.2	16
29	A desktop supersonic free-jet beam source for a scanning helium microscope (SHeM). <i>Measurement Science and Technology</i> , 2012, 23, 105901.	2.6	13
30	Field ionization detection of helium using a planar array of carbon nanotubes. <i>Physical Review B</i> , 2012, 85, .	3.2	10
31	Manipulating the orientation of an organic adsorbate on silicon: a NEXAFS study of acetophenone on Si(100). <i>Journal of Physics Condensed Matter</i> , 2015, 27, 054002.	1.8	10
32	Enantiospecific Adsorption and Decomposition of Cysteine Enantiomers on the Chiral Cu ₄₂₁ R Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20829-20837.	3.1	8
33	Valence-band structure and critical point energies of diamond along [100]. <i>Physical Review B</i> , 2013, 87, .	3.2	7
34	Changes in the Biochar Chemical Structure during the Low-Temperature Gasification of Mallee Biochar in Air as Revealed with Fourier Transform Infrared/Raman and X-ray Photoelectron Spectroscopies. <i>Energy & Fuels</i> , 2018, 32, 12545-12553.	5.1	7
35	Workfunction variation across surface of an H-terminated diamond film measured using Kelvin probe force microscopy. <i>Chemical Physics Letters</i> , 2011, 515, 151-154.	2.6	4
36	Development of an improved field ionization detector incorporating a secondary electron stage. <i>Measurement Science and Technology</i> , 2011, 22, 115902.	2.6	4

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37	Direct observation of phonon emission from hot electrons: spectral features in diamond secondary electron emission. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 395008.	1.8	4
38	Use of energy-filtered photoelectron emission microscopy and Kelvin probe force microscopy to visualise work function changes on diamond thin films terminated with oxygen and lithium mono-layers for thermionic energy conversion. <i>International Journal of Nanotechnology</i> , 2014, 11, 796.	0.2	4
39	Orientation and stability of a bi-functional aromatic organic molecular adsorbate on silicon. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27290-27299.	2.8	4
40	Field ionization detectors: a comparative model. <i>Measurement Science and Technology</i> , 2011, 22, 015901.	2.6	3
41	A step towards long-wavelength protein crystallography: subjecting protein crystals to a vacuum. <i>Journal of Applied Crystallography</i> , 2015, 48, 913-916.	4.5	3
42	Adsorption and Dissociation of a Bicyclic Tertiary Diamine, Triethylenediamine, on a Si(100)-2 Å ⁻¹ Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28672-28681.	3.1	2
43	Rapid Deposition of LDS/Carbon Nanotube Composites: A Novel Nanotube Field Emission Source. , 2006, , .		0
44	A simple method for creating nanotube field emitters from a surfactant dispersion. <i>Surface Science</i> , 2007, 601, 5775-5778.	1.9	0
45	Catalysis: Sulfur and Nitrogen Co-Doped Graphene for Metal-Free Catalytic Oxidation Reactions (Small 25/2015). <i>Small</i> , 2015, 11, 3035-3035.	10.0	0