

Scott G Walton

List of Publications by Year in descending order

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28
papers

511
citations

687363

13
h-index

677142

22
g-index

29
all docs

29
docs citations

29
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct mechanochemical cleavage of functional groups from graphene. Nature Communications, 2015, 6, 6467.	12.8	111
2	Modifying Surface Energy of Graphene via Plasma-Based Chemical Functionalization to Tune Thermal and Electrical Transport at Metal Interfaces. Nano Letters, 2015, 15, 4876-4882.	9.1	68
3	Aminated graphene for DNA attachment produced via plasma functionalization. Applied Physics Letters, 2012, 100, .	3.3	65
4	Controlling the local chemical reactivity of graphene through spatial functionalization. Carbon, 2013, 60, 84-93.	10.3	32
5	Characterization of a Compact, Low-Cost Atmospheric-Pressure Plasma Jet Driven by a Piezoelectric Transformer. IEEE Transactions on Plasma Science, 2019, 47, 434-444.	1.3	30
6	Three-dimensional model of electron beam generated plasma. Plasma Sources Science and Technology, 2017, 26, 065006.	3.1	27
7	Atomic fluorine densities in electron beam generated plasmas: A high ion to radical ratio source for etching with atomic level precision. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	24
8	One-dimensional Ar-SF6 hydromodel at low-pressure in e-beam generated plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	21
9	Study of photoresist etching and roughness formation in electron-beam generated plasmas. Journal of Vacuum Science & Technology B, 2007, 25, 779.	1.3	18
10	Plasma-Modified, Epitaxial Fabricated Graphene on SiC for the Electrochemical Detection of TNT. Sensors, 2016, 16, 1281.	3.8	17
11	Physio-Chemical Modifications of Polystyrene and Poly(propylene) Surfaces by Electron Beam-Generated Plasmas Produced in Argon. Plasma Processes and Polymers, 2009, 6, 234-245.	3.0	16
12	Precise control of ion and radical production using electron beam generated plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	2.1	15
13	Plasma Modification of Solid and Porous Polyethylene. Plasma Processes and Polymers, 2008, 5, 453-459.	3.0	13
14	Spatio-temporal characterization of a pulsed DC atmospheric pressure plasma jet interacting with substrates. Journal Physics D: Applied Physics, 2021, 54, 085202.	2.8	11
15	Formation of nanometer-thick delaminated amorphous carbon layer by two-step plasma processing of methacrylate-based polymer. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, .	1.2	8
16	Plasma-Based Chemical Modification of Epitaxial Graphene. Materials Science Forum, 0, 717-720, 657-660.	0.3	7
17	Improved Chemical Detection and Ultra-Fast Recovery Using Oxygen Functionalized Epitaxial Graphene Sensors. IEEE Sensors Journal, 2013, 13, 2810-2817.	4.7	7
18	Plasma-induced surface cooling. Nature Communications, 2022, 13, 2623.	12.8	6

#	ARTICLE	IF	CITATIONS
19	Electron Beam-Produced Plasmas. IEEE Transactions on Plasma Science, 2008, 36, 1218-1219.	1.3	3
20	Characterization of Light Emission From Electron-Beam-Generated Plasmas in Oxygen. IEEE Transactions on Plasma Science, 2011, 39, 2572-2573.	1.3	3
21	Fluorinated Graphene Enables the Growth of Inorganic Thin Films by Chemical Bath Deposition on Otherwise Inert Substrates. ACS Applied Materials & Interfaces, 2017, 9, 677-683.	8.0	3
22	Correlating charge fluence with nanoparticle formation during in situ plasma synthesis of nanocomposite films. Plasma Processes and Polymers, 2017, 14, 1700079.	3.0	2
23	Polystyrene and PMMA surface modification by electron beam generated plasma in argon and oxygen - effect of increased ion energy on polymer surface characteristics. , 2009, , .		1
24	Optical emission spectroscopy measurements of electron beam-generated plasma in argon, nitrogen and their mixtures. , 2010, , .		1
25	Thermal conductance of aluminum oxy-fluoride passivation layers. Applied Physics Letters, 2019, 115, .	3.3	1
26	Characterization of a Compact, Low Cost, Atmospheric Pressure Plasma Jet Driven by a Piezoelectric Transformer. , 2018, , .		1
27	Langmuir Probe Diagnostics of Continuous, Electron Beam Produced Plasma in Argon, Nitrogen and their Mixtures. , 2007, , .		0
28	Optical emission spectroscopy measurements of electron beam-generated plasma in argon. , 2011, , .		0