

# David R Boris

## List of Publications by Year in descending order

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35  
papers

602  
citations

687363

13  
h-index

580821

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

777  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-induced surface cooling. Nature Communications, 2022, 13, 2623.	12.8	6
2	Modeling of a Nanosecond Pulsed Atmospheric Pressure Plasma on Water. , 2022, , .		0
3	Hollow cathode enhanced capacitively coupled plasmas in Ar/N <sub>2</sub> /H <sub>2</sub> mixtures and implications for plasma enhanced ALD. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2022, 40, .	1.2	6
4	Etching with electron beam-generated plasmas: Selectivity versus ion energy in silicon-based films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	7
5	Hollow cathode plasma electron source for low temperature deposition of cobalt films by electron-enhanced atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	7
6	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
7	Extending the volume of atmospheric pressure plasma jets through the use of additional helium gas streams. Plasma Sources Science and Technology, 2020, 29, 015006.	3.1	10
8	Helium and oxygen excited states densities in a He-air RF-driven atmospheric pressure plasma jet. Physics of Plasmas, 2020, 27, .	1.9	5
9	The role of plasma in plasma-enhanced atomic layer deposition of crystalline films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	50
10	Phase Control of Crystalline Ga <sub>2</sub> O <sub>3</sub> Films by Plasma-Enhanced Atomic Layer Deposition. Chemistry of Materials, 2020, 32, 1140-1152.	6.7	48
11	Impact of Growth Conditions on the Phase Selectivity and Epitaxial Quality of TiO <sub>2</sub> Films Grown by the Plasma-Assisted Atomic Layer Deposition. Chemistry of Materials, 2019, 31, 3900-3908.	6.7	16
12	Thermal conductance of aluminum oxy-fluoride passivation layers. Applied Physics Letters, 2019, 115, .	3.3	1
13	Role of plasma properties in controlling crystallinity and phase in oxide films grown by plasma-enhanced atomic layer epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	16
14	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
15	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
16	Effect of varying plasma properties on III-nitride film growth by plasma enhanced atomic layer epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	2.1	10
17	Plasma-surface interactions in atmospheric pressure plasmas: <i>in situ</i> measurements of electron heating in materials. Journal of Applied Physics, 2018, 124, .	2.5	11
18	Characterization of a Compact, Low Cost, Atmospheric Pressure Plasma Jet Driven by a Piezoelectric Transformer. , 2018, , .		1

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19	Non-equilibrium steady-state kinetics of He-air atmospheric pressure plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	14
20	Atomic fluorine densities in electron beam generated plasmas: A high ion to radical ratio source for etching with atomic level precision. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	2.1	24
21	Parametric study of low-pressure electron beam generated Ar-SF <sub>6</sub> plasma and implications for processing. <i>Plasma Sources Science and Technology</i> , 2017, 26, 095006.	3.1	3
22	Correlating charge fluence with nanoparticle formation during in situ plasma synthesis of nanocomposite films. <i>Plasma Processes and Polymers</i> , 2017, 14, 1700079.	3.0	2
23	Initial evaluation and comparison of plasma damage to atomic layer carbon materials using conventional and low <i>Te</i> plasma sources. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	2.1	18
24	On the Mechanism of Pulsed Electron Beam Production From an Uninterrupted Plasma Cathode. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 761-768.	1.3	4
25	One-dimensional Ar-SF <sub>6</sub> hydromodel at low-pressure in e-beam generated plasmas. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	2.1	21
26	Electron Beam Generated Plasmas for Ultra Low T <sub>e</sub> Processing. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, N5033-N5040.	1.8	71
27	The influence of magnetic field on electron beam generated plasmas. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 275202.	2.8	25
28	Measuring the electron density, temperature, and electronegativity in electron beam-generated plasmas produced in argon/SF <sub>6</sub> mixtures. <i>Plasma Sources Science and Technology</i> , 2015, 24, 025032.	3.1	27
29	The effects of in-elastic processes on electron temperature in electron beam generated plasmas. , 2014, , .		0
30	Modeling of an electron beam generated Ar-N <sub>2</sub> Plasma for plasma processing. , 2014, , .		0
31	Chemical Gradients on Graphene To Drive Droplet Motion. <i>ACS Nano</i> , 2013, 7, 4746-4755.	14.6	142
32	Frequency probe measurements in processing plasmas. , 2011, , .		0
33	Optical emission spectroscopy measurements of electron beam-generated plasma in argon. , 2011, , .		0
34	Frequency probe measurements in processing plasmas. , 2010, , .		0
35	Optical emission spectroscopy measurements of electron beam-generated plasma in argon, nitrogen and their mixtures. , 2010, , .		1