Predrag Krstic

List of Publications by Year
in descending order

28 papers	405 citations	686830 13 h-index	794141 19 g-index
29 all docs	29 docs citations	29 times ranked	535 citing authors

#	Article	IF	Citations
1	Deuterium Uptake in Magnetic-Fusion Devices with Lithium-Conditioned Carbon Walls. Physical Review Letters, 2013, 110, 105001.	2.9	45
2	Simulations of the synthesis of boron-nitride nanostructures in a hot, high pressure gas volume. Chemical Science, 2018, 9, 3803-3819.	3.7	28
3	Detection of hydrogen using graphene. Nanoscale Research Letters, 2012, 7, 198.	3.1	27
4	Physical model for recognition tunneling. Nanotechnology, 2015, 26, 084001.	1.3	27
5	Attosecond electron dynamics: A multiresolution approach. Physical Review A, 2012, 85, .	1.0	23
6	Unraveling the surface chemistry processes in lithiated and boronized plasma material interfaces under extreme conditions. Matter and Radiation at Extremes, 2018, 3, 165-187.	1.5	21
7	Dynamics of deuterium retention and sputtering of Liâ€“Câ€“O surfaces. Fusion Engineering and Design, 2012, 87, 1732-1736.	1.0	20
8	Prospect of using Grover's search in the noisy-intermediate-scale quantum-computer era. Physical Review A, 2020, 102, .	1.0	19
9	A computational study of hydrogen detection by borophene. Journal of Materials Chemistry C, 2017, 5, 5426-5433.	2.7	18
10	A path for synthesis of boron-nitride nanostructures in volume of arc plasma. Nanotechnology, 2017, 28, 07LT01.	1.3	17
11	Low-energy hydrogen uptake by small-cage Cn and Cn-1B fullerenes. Carbon, 2018, 134, 189-198.	5.4	17
12	He-ion and self-atom induced damage and surface-morphology changes of a hot W target. Physica Scripta, 2014, T159, 014029.	1.2	15
13	Sputtering of lithiated and oxidated carbon surfaces by low-energy deuterium irradiation. Journal of Nuclear Materials, 2017, 492, 56-61.	1.3	13
14	Excited state quantum-classical molecular dynamics. Physica Scripta, 2006, T124, 101-107.	1.2	12
15	Studies of lithiumization and boronization of ATJ graphite PFCs in NSTX-U. Nuclear Materials and Energy, 2017, 12, 334-340.	0.6	12
16	Migration of a carbon adatom on a charged single-walled carbon nanotube. Carbon, 2017, 116, 174-180.	5.4	11
17	Unraveling the plasma-material interface with real time diagnosis of dynamic boron conditioning in extreme tokamak plasmas. Nuclear Fusion, 2017, 57, 086050.	1.6	11
18	The role of oxygen in the uptake of deuterium in lithiated graphite. Journal of Applied Physics, 2013, 114, .	1.1	10

#	Article	IF	Citations
19	ReaxFF Force Field Development for Gas-Phase hBN Nanostructure Synthesis. Journal of Physical Chemistry A, 2022, 126, 568-582.	1.1	10
20	Variational quantum linear solver with a dynamic ansatz. Physical Review A, 2022, 105, .	1.0	9
21	Chemical sputtering of boronized and oxidized carbon surfaces irradiated by low-energy deuterium atoms. Journal of Applied Physics, 2017, 121, .	1.1	8
22	Surface-morphology changes and damage in hot tungsten by impact of 80 eV â€“ 12 keV He-ions and keV-energy self-atoms. Journal of Physics: Conference Series, 2014, 488, 012036.	0.3	7
23	Deuterium uptake and sputtering of simultaneous lithiated, boronized, and oxidized carbon surfaces irradiated by low-energy deuterium. Journal of Applied Physics, 2018, 123, .	1.1	7
24	Effect of deuterium irradiation on graphite boronized in the NSTX-U tokamak. Scientific Reports, 2019, 9, 2435.	1.6	6
25	Damage at a tungsten surface induced by impacts of self-atoms. Journal of Nuclear Materials, 2015, 467, 480-487.	1.3	4
26	Can Hydrogen Catalyze Transitions between h-BN and c-BN in Volume Plasma?. Journal of Physical Chemistry C, 2018, 122, 936-944.	1.5	4
27	Energy, angle, and temperature dependencies of the sticking of D atoms on Li surfaces. Journal of Applied Physics, 2022, 131, .	1.1	3
28	Response of a DNA Hydrogen Bond to a Force in Liquid. Advances in Quantum Chemistry, 2016, 72, 13-28.	0.4	0