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	Variational quantum linear solver with a dynamic ansatz. Physical Review A, 2022, 105, .	1.0	9
2	ReaxFF Force Field Development for Gas-Phase hBN Nanostructure Synthesis. Journal of Physical Chemistry A, 2022, 126, 568-582.	1.1	10
3	Energy, angle, and temperature dependencies of the sticking of D atoms on Li surfaces. Journal of Applied Physics, 2022, 131, .	1.1	3
4	Prospect of using Grover's search in the noisy-intermediate-scale quantum-computer era. Physical Review A, 2020, 102, .	1.0	19
5	Effect of deuterium irradiation on graphite boronized in the NSTX-U tokamak. Scientific Reports, 2019, 9, 2435.	1.6	6
6	Low-energy hydrogen uptake by small-cage Cn and Cn-1B fullerenes. Carbon, 2018, 134, 189-198.	5.4	17
7	Simulations of the synthesis of boron-nitride nanostructures in a hot, high pressure gas volume. Chemical Science, 2018, 9, 3803-3819.	3.7	28
8	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
9	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
10	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
11	Studies of lithiumization and boronization of ATJ graphite PFCs in NSTX-U. Nuclear Materials and Energy, 2017, 12, 334-340.	0.6	12
12	A path for synthesis of boron-nitride nanostructures in volume of arc plasma. Nanotechnology, 2017, 28, 07LT01.	1.3	17
13	Migration of a carbon adatom on a charged single-walled carbon nanotube. Carbon, 2017, 116, 174-180.	5.4	11
14	A computational study of hydrogen detection by borophene. Journal of Materials Chemistry C, 2017, 5, 5426-5433.	2.7	18
15	Sputtering of lithiated and oxidated carbon surfaces by low-energy deuterium irradiation. Journal of Nuclear Materials, 2017, 492, 56-61.	1.3	13
16	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
17	Chemical sputtering of boronized and oxidized carbon surfaces irradiated by low-energy deuterium atoms. Journal of Applied Physics, 2017, 121, .	1.1	8
18	Response of a DNA Hydrogen Bond to a Force in Liquid. Advances in Quantum Chemistry, 2016, 72, 13-28.	0.4	0

#	Article	IF	Citations
19	Physical model for recognition tunneling. Nanotechnology, 2015, 26, 084001.	1.3	27
20	Damage at a tungsten surface induced by impacts of self-atoms. Journal of Nuclear Materials, 2015, 467, 480-487.	1.3	4
21	He-ion and self-atom induced damage and surface-morphology changes of a hot W target. Physica Scripta, 2014, T159, 014029.	1.2	15
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	The role of oxygen in the uptake of deuterium in lithiated graphite. Journal of Applied Physics, 2013, 114, .	1.1	10
24	Deuterium Uptake in Magnetic-Fusion Devices with Lithium-Conditioned Carbon Walls. Physical Review Letters, 2013, 110, 105001.	2.9	45
25	Dynamics of deuterium retention and sputtering of Liâ€“Câ€“O surfaces. Fusion Engineering and Design, 2012, 87, 1732-1736.	1.0	20
26	Detection of hydrogen using graphene. Nanoscale Research Letters, 2012, 7, 198.	3.1	27
27	Attosecond electron dynamics: A multiresolution approach. Physical Review A, 2012, 85, .	1.0	23
28	Excited state quantum-classical molecular dynamics. Physica Scripta, 2006, T124, 101-107.	1.2	12