RÃ©gis Bisson

List of Publications by Year
in descending order

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Version: 2024-02-01

42	1,099	430874	395702
papers	citations	18 h-index	33 g-index

43	43	43	983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Operating a full tungsten actively cooled tokamak: overview of WEST first phase of operation. Nuclear Fusion, 2022, 62, 042007.	3.5	39
2	Investigation of plasma wall interactions between tungsten plasma facing components and helium plasmas in the WEST tokamak. Nuclear Fusion, 2022, 62, 076028.	3.5	22
3	Surface oxygen versus native oxide on tungsten: contrasting effects on deuterium retention and release. Nuclear Fusion, 2022, 62, 054002.	3.5	12
4	Optical Properties of Tungsten: A Parametric Study to Characterize the Role of Roughness, Surface Composition and Temperature. Optics, 2022, 3, 216-224.	1.2	0
5	Deuterium and helium outgassing following plasma discharges in WEST: Delayed D outgassing during D-to-He changeover experiments studied with threshold ionization mass spectrometry. Nuclear Materials and Energy, 2021, 26, 100885.	1.3	5
6	Nitrogen retention and ammonia production on tungsten. Nuclear Fusion, 2021, 61, 126067.	3.5	4
7	Sticking Probability of Ammonia Molecules on Tungsten and 316L Stainless Steel Surfaces. Journal of Physical Chemistry C, 2020, 124, 17566-17577.	3.1	7
8	Hydrogen trapping in tungsten: impact of helium irradiation and thermal cycling. Physica Scripta, 2020, T171, 014066.	2.5	13
9	Long discharges in a steady state with D₂ and N₂ on the actively cooled tungsten upper divertor in WEST. Nuclear Fusion, 2020, 60, 126046.	3.5	9
10	Comparison of dynamic deuterium retention in single-crystal and poly-crystals of tungsten: The role of natural defects. Nuclear Instruments & Methods in Physics Research B, 2019, 461, 159-165.	1.4	9
11	Blistering and hydrogen retention in poly- and single- crystals of aluminum by a joint experimental-modeling approach. Nuclear Materials and Energy, 2019, 20, 100675.	1.3	2
12	Tritium retention in W plasma-facing materials: Impact of the material structure and helium irradiation. Nuclear Materials and Energy, 2019, 19, 403-410.	1.3	17
13	Exciting H₂ Molecules for Graphene Functionalization. ACS Nano, 2018, 12, 513-520.	14.6	24
14	Patterned formation of enolate functional groups on the graphene basal plane. Physical Chemistry Chemical Physics, 2018, 20, 28370-28374.	2.8	8
15	The effect of surface temperature on optical properties of molybdenum mirrors in the visible and near-infrared domains. Nuclear Fusion, 2018, 58, 096012.	3.5	5
16	Retention and release of hydrogen isotopes in tungsten plasma-facing components: the role of grain boundaries and the native oxide layer from a joint experiment-simulation integrated approach. Nuclear Fusion, 2017, 57, 076019.	3.5	33
17	Simulations of atomic deuterium exposure in self-damaged tungsten. Nuclear Fusion, 2017, 57, 056002.	3.5	33
18	Estimation of the tritium retention in ITER tungsten divertor target using macroscopic rate equations simulations. Physica Scripta, 2017, T170, 014033.	2.5	15

#	Article	IF	Citations
19	The temperature dependence of optical properties of tungsten in the visible and near-infrared domains: an experimental and theoretical study. Journal Physics D: Applied Physics, 2017, 50, 455601.	2.8	56
20	Plasmaâ€“wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. Nuclear Fusion, 2017, 57, 116041.	3.5	75
21	Laser remote heating in vacuum environment to study temperature dependence of optical properties for bulk materials. , 2016, , .		2
22	Hydrogenated graphene on Ir(111): A high-resolution electron energy loss spectroscopy study of the vibrational spectrum. Physical Review B, 2016, 93, .	3.2	11
23	Study of hydrogen isotopes behavior in tungsten by a multi trapping macroscopic rate equation model. Physica Scripta, 2016, T167, 014011.	2.5	27
24	Dynamic fuel retention in tokamak wall materials: An in situ laboratory study of deuterium release from polycrystalline tungsten at room temperature. Journal of Nuclear Materials, 2015, 467, 432-438.	2.7	41
25	Macroscopic rate equation modeling of trapping/detrapping of hydrogen isotopes in tungsten materials. Journal of Nuclear Materials, 2015, 467, 424-431.	2.7	59
26	Deuterium adsorption on (and desorption from) SiC(0â€‰0â€‰0â€‰1)-(3 Ã— 3), $(sqrt{sf 3} imes sqrt {sf) Tj ETQq0 0 0 rgBT /Overl graphene obtained by hydrogen intercalation. Journal Physics D: Applied Physics, 2014, 47, 094014.	2.8	7
27	Quantum state-resolved gas/surface reaction dynamics probed by reflection absorption infrared spectroscopy. Review of Scientific Instruments, 2013, 84, 053902.	1.3	27
28	The sticking probability of D2O-water on ice: Isotope effects and the influence of vibrational excitation. Journal of Chemical Physics, 2012, 137, 074701.	3.0	18
29	Reversible hydrogenation of deuterium-intercalated quasi-free-standing graphene on SiC(0001). Physical Review B, 2012, 85, .	3.2	15
30	Vibrationally bond-selected chemisorption of methane isotopologues on Pt(111) studied by reflection absorption infrared spectroscopy. Faraday Discussions, 2012, 157, 285.	3.2	68
31	Alignment dependent chemisorption of vibrationally excited CH4(Î½3) on Ni(100), Ni(110), and Ni(111). Journal of Chemical Physics, 2011, 135, 224703.	3.0	50
32	Mode-specific reactivity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CH</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msu xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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37	Cavity ring-down spectroscopy of jet-cooled silane isotopologues in the Siâ€“H stretch overtone region. Journal of Chemical Physics, 2007, 127, 244301.	3.0	4
38	State-Resolved Reactivity of CH4(2Î½3) on Pt(111) and Ni(111):Â Effects of Barrier Height and Transition State Locationâ€. Journal of Physical Chemistry A, 2007, 111, 12679-12683.	2.5	102
39	Angle-resolved study of hydrogen abstraction on Si(100) and Si(111): Evidence for non-activated pathways. Surface Science, 2006, 600, 4454-4463.	1.9	11
40	Non-activated pathway in angle-resolved study of H2 molecules produced in the abstraction reaction of incident H atoms on hydrogenated Si(100). Chemical Physics Letters, 2005, 411, 429-433.	2.6	4
41	Mixed (Ar) $mathsf{_{n}}$ (N $mathsf{_{2}}$) $mathsf{_{m}}$ van der Waals clusters created by pick-up technique. European Physical Journal D, 2004, 28, 367-372.	1.3	2
42	The role of defects, deuterium, and surface morphology on the optical response of beryllium. Nuclear Fusion, 0, , .	3.5	5