

List of Publications by Year in descending order

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42
papers

1,099
citations

430874

18
h-index

395702

33
g-index

43
all docs

43
docs citations

43
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Steric Effects in the Chemisorption of Vibrationally Excited Methane on Ni(100). <i>Science</i> , 2010, 329, 553-556.	12.6	138
2	State-Resolved Reactivity of CH ₄ (2 ^{1/2} 3) on Pt(111) and Ni(111): Effects of Barrier Height and Transition State Location. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12679-12683.	2.5	102
3	Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. <i>Nuclear Fusion</i> , 2017, 57, 116041.	3.5	75
4	Vibrationally bond-selected chemisorption of methane isotopologues on Pt(111) studied by reflection absorption infrared spectroscopy. <i>Faraday Discussions</i> , 2012, 157, 285.	3.2	68
5	Macroscopic rate equation modeling of trapping/detrapping of hydrogen isotopes in tungsten materials. <i>Journal of Nuclear Materials</i> , 2015, 467, 424-431.	2.7	59
6	The temperature dependence of optical properties of tungsten in the visible and near-infrared domains: an experimental and theoretical study. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 455601.	2.8	56
7	Mode-specific reactivity of CH_4 on tungsten surfaces. <i>Journal of Physical Chemistry A</i> , 2017, 121, 12679-12683.		

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19	The sticking probability of D ₂ O-water on ice: Isotope effects and the influence of vibrational excitation. <i>Journal of Chemical Physics</i> , 2012, 137, 074701.	3.0	18
20	Tritium retention in W plasma-facing materials: Impact of the material structure and helium irradiation. <i>Nuclear Materials and Energy</i> , 2019, 19, 403-410.	1.3	17
21	Reversible hydrogenation of deuterium-intercalated quasi-free-standing graphene on SiC(0001). <i>Physical Review B</i> , 2012, 85, .	3.2	15
22	Estimation of the tritium retention in ITER tungsten divertor target using macroscopic rate equations simulations. <i>Physica Scripta</i> , 2017, T170, 014033.	2.5	15
23	Hydrogen trapping in tungsten: impact of helium irradiation and thermal cycling. <i>Physica Scripta</i> , 2020, T171, 014066.	2.5	13
24	Surface oxygen versus native oxide on tungsten: contrasting effects on deuterium retention and release. <i>Nuclear Fusion</i> , 2022, 62, 054002.	3.5	12
25	Angle-resolved study of hydrogen abstraction on Si(100) and Si(111): Evidence for non-activated pathways. <i>Surface Science</i> , 2006, 600, 4454-4463.	1.9	11
26	Hydrogenated graphene on Ir(111): A high-resolution electron energy loss spectroscopy study of the vibrational spectrum. <i>Physical Review B</i> , 2016, 93, .	3.2	11
27	Comparison of dynamic deuterium retention in single-crystal and poly-crystals of tungsten: The role of natural defects. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 461, 159-165.	1.4	9
28	Long discharges in a steady state with D ₂ and N ₂ on the actively cooled tungsten upper divertor in WEST. <i>Nuclear Fusion</i> , 2020, 60, 126046.	3.5	9
29	Patterned formation of enolate functional groups on the graphene basal plane. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28370-28374.	2.8	8
30	Deuterium adsorption on (and desorption from) SiC(0001)-(3 Å ⁻³), $\sqrt{3} \times \sqrt{3}$ R30° graphene obtained by hydrogen intercalation. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 094014.	2.8	7
31	Sticking Probability of Ammonia Molecules on Tungsten and 316L Stainless Steel Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17566-17577.	3.1	7
32	The effect of surface temperature on optical properties of molybdenum mirrors in the visible and near-infrared domains. <i>Nuclear Fusion</i> , 2018, 58, 096012.	3.5	5
33	Deuterium and helium outgassing following plasma discharges in WEST: Delayed D outgassing during D-to-He changeover experiments studied with threshold ionization mass spectrometry. <i>Nuclear Materials and Energy</i> , 2021, 26, 100885.	1.3	5
34	The role of defects, deuterium, and surface morphology on the optical response of beryllium. <i>Nuclear Fusion</i> , 0, , .	3.5	5
35	Non-activated pathway in angle-resolved study of H ₂ molecules produced in the abstraction reaction of incident H atoms on hydrogenated Si(100). <i>Chemical Physics Letters</i> , 2005, 411, 429-433.	2.6	4
36	Cavity ring-down spectroscopy of jet-cooled silane isotopologues in the Si-H stretch overtone region. <i>Journal of Chemical Physics</i> , 2007, 127, 244301.	3.0	4

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37	Nitrogen retention and ammonia production on tungsten. Nuclear Fusion, 2021, 61, 126067.	3.5	4
38	Mixed (Ar) N_m (N_2) N_m van der Waals clusters created by pick-up technique. European Physical Journal D, 2004, 28, 367-372.	1.3	2
39	Comment on "Angular distributions of H-induced HD and D2 desorptions from the Si(100) surfaces" [J. Chem. Phys. 124, 054715 (2006)]. Journal of Chemical Physics, 2008, 128, 017101.	3.0	2
40	Laser remote heating in vacuum environment to study temperature dependence of optical properties for bulk materials. , 2016, , .		2
41	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
42	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