

Wolfgang Jacob

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8858321/wolfgang-jacob-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

172
papers

5,247
citations

41
h-index

63
g-index

175
ext. papers

5,561
ext. citations

2.9
avg, IF

5.57
L-index

#	Paper	IF	Citations
172	Comparison experiment on the sputtering of EUROFER, RUSFER and CLAM steels by deuterium ions. <i>Nuclear Materials and Energy</i> , 2022 , 30, 101118	2.1	1
171	Influence of thin surface oxide films on hydrogen isotope release from ion-irradiated tungsten. <i>Nuclear Materials and Energy</i> , 2022 , 30, 101137	2.1	0
170	Influence of thin tungsten oxide films on hydrogen isotope uptake and retention in tungsten □ Evidence for permeation barrier effect. <i>Nuclear Materials and Energy</i> , 2021 , 27, 100991	2.1	2
169	Cross section of 15N-2D nuclear reactions from 3.3 to 7.0 MeV for simultaneous hydrogen and deuterium quantitation in surface layers with 15N ion beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 478, 56-61	1.2	0
168	Impact of surface enrichment and morphology on sputtering of EUROFER by deuterium. <i>Nuclear Materials and Energy</i> , 2020 , 23, 100749	2.1	7
167	Deuterium retention in tungsten irradiated by different ions. <i>Nuclear Fusion</i> , 2020 , 60, 096002	3.3	11
166	Bonding States of Hydrogen in Plasma-Deposited Hydrocarbon Films. <i>Journal of Carbon Research</i> , 2020 , 6, 3	3.3	2
165	An SEM compatible plasma cell for in situ studies of hydrogen-material interaction. <i>Review of Scientific Instruments</i> , 2020 , 91, 043705	1.7	8
164	Hydrogen atom-ion synergy in surface lattice modification at sub-threshold energy. <i>Acta Materialia</i> , 2020 , 201, 55-62	8.4	3
163	High-flux hydrogen irradiation-induced cracking of tungsten reproduced by low-flux plasma exposure. <i>Nuclear Fusion</i> , 2019 , 59, 056023	3.3	9
162	Surface blistering and deuterium retention in tungsten exposed to low-energy deuterium plasma at different temperatures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 450, 210-214	1.2	0
161	Deposition of thermally stable tungsten nitride thin films by reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019 , 375, 701-707	4.4	3
160	Deuterium absorption in reduced activation ferritic/martensitic steel F82H under exposure to D2O vapor/water at room temperature. <i>Journal of Nuclear Materials</i> , 2018 , 507, 54-58	3.3	
159	Deuterium retention behavior of pure and Y2O3-doped tungsten investigated by nuclear reaction analysis and thermal desorption spectroscopy. <i>Nuclear Materials and Energy</i> , 2018 , 15, 32-42	2.1	8
158	SIESTA: A high current ion source for erosion and retention studies. <i>Review of Scientific Instruments</i> , 2018 , 89, 103501	1.7	4
157	Effect of exposure temperature on deuterium retention and surface blistering of tungsten exposed to sequential nitrogen and deuterium plasma. <i>Nuclear Fusion</i> , 2018 , 58, 106027	3.3	6
156	Study of the temperature-dependent nitrogen retention in tungsten surfaces using X-ray photoelectron spectroscopy. <i>Nuclear Materials and Energy</i> , 2018 , 17, 48-55	2.1	4

155	Erosion of EUROFER steel by mass-selected deuterium ion bombardment. <i>Nuclear Materials and Energy</i> , 2018 , 16, 114-122	2.1	10
154	Deuterium implantation into Y ₂ O ₃ -doped and pure tungsten: Deuterium retention and blistering behavior. <i>Journal of Nuclear Materials</i> , 2017 , 487, 75-83	3.3	9
153	Recent progress in the understanding of H transport and trapping in W. <i>Physica Scripta</i> , 2017 , T170, 014025	2.6	18
152	Erosion and deuterium retention of CLF-1 steel exposed to deuterium plasma. <i>Physica Scripta</i> , 2017 , T170, 014025	2.6	17
151	Deuterium supersaturation in low-energy plasma-loaded tungsten surfaces. <i>Nuclear Fusion</i> , 2017 , 57, 016026	3.3	27
150	Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. <i>Nuclear Fusion</i> , 2017 , 57, 116041	3.3	50
149	Effects of surface modifications on deuterium retention in F82H and EUROFER exposed to low-energy deuterium plasmas. <i>Fusion Engineering and Design</i> , 2016 , 112, 236-239	1.7	18
148	Interaction of deuterium plasma with sputter-deposited tungsten nitride films. <i>Nuclear Fusion</i> , 2016 , 56, 016004	3.3	15
147	Investigation of deuterium retention in/desorption from beryllium-containing mixed layers. <i>Nuclear Materials and Energy</i> , 2016 , 6, 1-9	2.1	13
146	Sputtering of iron, chromium and tungsten by energetic deuterium ion bombardment. <i>Nuclear Materials and Energy</i> , 2016 , 8, 1-7	2.1	41
145	Measurement and modeling of neutral, radical, and ion densities in H ₂ -N ₂ -Ar plasmas. <i>Journal of Applied Physics</i> , 2015 , 117, 083303	2.5	32
144	The effect of ion flux on plasma-induced modification and deuterium retention in tungsten and tungsten-tantalum alloys. <i>Journal of Nuclear Materials</i> , 2015 , 464, 69-72	3.3	24
143	Erosion study of Fe-W binary mixed layer prepared as model system for RAFM steel. <i>Journal of Nuclear Materials</i> , 2015 , 463, 272-275	3.3	32
142	Deuterium retention in tungsten films after different heat treatments. <i>Journal of Nuclear Materials</i> , 2015 , 456, 192-199	3.3	12
141	Deuterium implantation into tungsten nitride: Negligible diffusion at 300K. <i>Journal of Nuclear Materials</i> , 2014 , 451, 352-355	3.3	25
140	Deuterium diffusion and retention in a tungsten-carbon multilayer system. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 329, 6-13	1.2	10
139	Depth profiling of the modification induced by high-flux deuterium plasma in tungsten and tungsten-tantalum alloys. <i>Nuclear Fusion</i> , 2014 , 54, 123013	3.3	23
138	Wall loss of atomic nitrogen determined by ionization threshold mass spectrometry. <i>Journal of Applied Physics</i> , 2014 , 116, 193302	2.5	3

137	Surface loss probability of atomic hydrogen for different electrode cover materials investigated in H ₂ -Ar low-pressure plasmas. <i>Journal of Applied Physics</i> , 2014 , 116, 013302	2.5	12
136	Suppression of hydrogen-induced blistering of tungsten by pre-irradiation at low temperature. <i>Nuclear Fusion</i> , 2014 , 54, 122003	3.3	13
135	Influence of nitrogen pre-implantation on deuterium retention in tungsten. <i>Physica Scripta</i> , 2014 , T159, 014023	2.6	18
134	Deuterium retention in tungsten films deposited by magnetron sputtering. <i>Physica Scripta</i> , 2014 , T159, 014046	2.6	19
133	Characterization of temperature-induced changes in amorphous hydrogenated carbon thin films. <i>Diamond and Related Materials</i> , 2013 , 37, 97-103	3.5	17
132	What makes a dangling bond a binding site for thermal CH ₃ radicals? [A combined molecular dynamics and potential energy analysis study on amorphous hydrocarbon films. <i>Diamond and Related Materials</i> , 2013 , 40, 41-50	3.5	5
131	Long-term H-release of hard and intermediate between hard and soft amorphous carbon evidenced by in situ Raman microscopy under isothermal heating. <i>Diamond and Related Materials</i> , 2013 , 37, 92-96	3.5	11
130	Study of deuterium retention in/release from ITER-relevant Be-containing mixed material layers implanted at elevated temperatures. <i>Journal of Nuclear Materials</i> , 2013 , 438, S1113-S1116	3.3	15
129	Deuterium retention in tungsten-doped amorphous carbon films exposed to deuterium plasma. <i>Journal of Nuclear Materials</i> , 2013 , 438, S1134-S1137	3.3	2
128	Comparing deuterium retention in tungsten films measured by temperature programmed desorption and nuclear reaction analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 300, 54-61	1.2	49
127	Raman spectroscopy investigation of the H content of heated hard amorphous carbon layers. <i>Diamond and Related Materials</i> , 2013 , 34, 100-104	3.5	41
126	Quantitative determination of mass-resolved ion densities in H ₂ -Ar inductively coupled radio frequency plasmas. <i>Journal of Applied Physics</i> , 2013 , 113, 093304	2.5	26
125	Deuterium inventory in Tore Supra: Coupled carbon-deuterium balance. <i>Journal of Nuclear Materials</i> , 2013 , 438, S120-S125	3.3	32
124	Ion chemistry in H ₂ -Ar low temperature plasmas. <i>Journal of Applied Physics</i> , 2013 , 114, 063302	2.5	39
123	Erosion of tungsten-doped amorphous carbon films in oxygen plasma. <i>Journal of Nuclear Materials</i> , 2012 , 420, 101-109	3.3	5
122	Determination of the sticking coefficient of energetic hydrocarbon molecules by molecular dynamics. <i>Journal of Nuclear Materials</i> , 2012 , 420, 291-296	3.3	13
121	Erosion of tungsten-doped amorphous carbon films exposed to deuterium plasmas. <i>Journal of Nuclear Materials</i> , 2012 , 426, 277-286	3.3	4
120	Raman micro-spectroscopy as a tool to measure the absorption coefficient and the erosion rate of hydrogenated amorphous carbon films heat-treated under hydrogen bombardment. <i>Diamond and Related Materials</i> , 2012 , 22, 92-95	3.5	14

119	In situ study of erosion and deposition of amorphous hydrogenated carbon films by exposure to a hydrogen atom beam. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 041601	2.9	9
118	Synthesis of diamond fine particles on levitated seed particles in a rf CH ₄ /H ₂ plasma chamber equipped with a hot filament. <i>Journal of Applied Physics</i> , 2012 , 112, 073303	2.5	
117	Levitation and collection of diamond fine particles in the rf plasma chamber equipped with a hot filament. <i>Physics of Plasmas</i> , 2011 , 18, 113703	2.1	2
116	13th International Workshop on Plasma-Facing Materials and Components for Fusion Applications/1st International Conference on Fusion Energy Materials Science. <i>Physica Scripta</i> , 2011 , T145, 011001	2.6	3
115	Statistical analysis of blister bursts during temperature-programmed desorption of deuterium-implanted polycrystalline tungsten. <i>Physica Scripta</i> , 2011 , T145, 014038	2.6	20
114	Fit formulas for the angular dependence of the sticking coefficient of energetic hydrocarbon molecules. <i>Journal of Nuclear Materials</i> , 2011 , 415, S196-S199	3.3	4
113	Erosion of a-C:D thin films by low energy D ⁺ . <i>Journal of Nuclear Materials</i> , 2011 , 415, S125-S128	3.3	2
112	Raman study of CFC tiles extracted from the toroidal pump limiter of Tore Supra. <i>Journal of Nuclear Materials</i> , 2011 , 415, S254-S257	3.3	13
111	Influence of the microstructure on the deuterium retention in tungsten. <i>Journal of Nuclear Materials</i> , 2011 , 415, S632-S635	3.3	80
110	Molecular size effect in the chemical sputtering of a-C:H thin films by low energy H ⁺ , H ₂ ⁺ , and H ₃ ⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 1276-1279	1.2	3
109	Quantification of the deuterium ion fluxes from a plasma source. <i>Plasma Sources Science and Technology</i> , 2011 , 20, 015010	3.5	83
108	Technical Developments for Harnessing Controlled Fusion 2011 , 2759-2795		
107	Interaction of nitrogen plasmas with tungsten. <i>Nuclear Fusion</i> , 2010 , 50, 025006	3.3	54
106	Stages in the interaction of deuterium atoms with amorphous hydrogenated carbon films: Isotope exchange, soft-layer formation, and steady-state erosion. <i>Journal of Applied Physics</i> , 2010 , 108, 043307	2.5	9
105	Hydrogen interaction with Al ₂ O ₃ -coated tungsten under plasma irradiation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010 , 74, 263-267	0.4	
104	Deuterium inventory in Tore Supra: reconciling particle balance and post-mortem analysis. <i>Nuclear Fusion</i> , 2009 , 49, 075011	3.3	47
103	Overview of the recent DiMES and MiMES experiments in DIII-D. <i>Physica Scripta</i> , 2009 , T138, 014007	2.6	17
102	Critical Review of Complex Plasma (Dusty Plasma) Diagnostics and Manipulation Techniques for the Fusion Community and Others. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 270-280	1.3	5

101	Carbon removal from tile gap structures with oxygen glow discharges. <i>Journal of Nuclear Materials</i> , 2009 , 390-391, 602-605	3.3	9
100	Deuterium retention in different tungsten grades. <i>Physica Scripta</i> , 2009 , T138, 014053	2.6	37
99	Determination of the sticking probability of hydrocarbons on an amorphous hydrocarbon surface. <i>Physica Scripta</i> , 2009 , T138, 014015	2.6	5
98	Fuel removal from tile gaps with oxygen discharges: reactivity of neutrals. <i>Physica Scripta</i> , 2009 , T138, 014009	2.6	7
97	Chemical sputtering of carbon by combined exposure to nitrogen ions and atomic hydrogen. <i>New Journal of Physics</i> , 2008 , 10, 053037	2.9	23
96	Environment with reduced ion bombardment energy for levitated particles in an rf plasma. <i>Plasma Sources Science and Technology</i> , 2008 , 17, 035014	3.5	1
95	Redeposition of amorphous hydrogenated carbon films during thermal decomposition. <i>Journal of Nuclear Materials</i> , 2008 , 376, 160-168	3.3	57
94	Chemical sputtering of carbon films by simultaneous irradiation with argon ions and molecular oxygen. <i>New Journal of Physics</i> , 2008 , 10, 093022	2.9	29
93	Chemical sputtering of a-C:H films by simultaneous exposure to energetic Ar ⁺ ions and water vapor. <i>Journal of Physics: Conference Series</i> , 2008 , 100, 062012	0.3	2
92	Oxygen glow discharge cleaning in nuclear fusion devices. <i>Journal of Nuclear Materials</i> , 2008 , 374, 413-423	3.3	25
91	Temperature dependence of the chemical sputtering of amorphous hydrogenated carbon films by hydrogen. <i>Journal of Nuclear Materials</i> , 2008 , 376, 33-37	3.3	27
90	Chemical Sputtering 2007 , 329-400		40
89	DIMES studies of temperature dependence of carbon erosion and re-deposition in the lower divertor of DIII-D under detachment. <i>Physica Scripta</i> , 2007 , T128, 29-34	2.6	17
88	Growth and erosion of amorphous carbon (a-C:H) films by low-temperature laboratory plasmas containing H and N mixtures. <i>Journal of Nuclear Materials</i> , 2007 , 363-365, 174-178	3.3	28
87	Oxygen glow discharge cleaning in ASDEX Upgrade. <i>Journal of Nuclear Materials</i> , 2007 , 363-365, 882-887	3.3	29
86	Divertor and midplane materials evaluation system in DIII-D. <i>Journal of Nuclear Materials</i> , 2007 , 363-365, 276-281	3.3	9
85	Formation of deuterium-carbon inventories in gaps of plasma facing components. <i>Journal of Nuclear Materials</i> , 2007 , 363-365, 870-876	3.3	45
84	The approach to diamond growth on levitating seed particles. <i>Applied Surface Science</i> , 2007 , 254, 177-186	3.3	2

83	Reactivity of soft amorphous hydrogenated carbon films in ambient atmosphere. <i>Journal of Nuclear Materials</i> , 2007 , 363-365, 944-948	3.3	5
82	The implications of high-Z first-wall materials on noble gas wall recycling. <i>Nuclear Fusion</i> , 2007 , 47, 984-989	3.3	16
81	Chemical sputtering of carbon films by argon ions and molecular oxygen at cryogenic temperatures. <i>Applied Physics Letters</i> , 2007 , 90, 224106	3.4	15
80	Tritium retention in next step devices and the requirements for mitigation and removal techniques. <i>Plasma Physics and Controlled Fusion</i> , 2006 , 48, B189-B199	2	79
79	Chemical sputtering of carbon materials due to combined bombardment by ions and atomic hydrogen. <i>Physica Scripta</i> , 2006 , T124, 32-36	2.6	36
78	Particle growth in hydrogen-methane plasmas. <i>Thin Solid Films</i> , 2006 , 506-507, 652-655	2.2	5
77	Growth precursors for a-C:H film deposition in pulsed inductively coupled methane plasmas. <i>Journal of Applied Physics</i> , 2005 , 98, 073302	2.5	41
76	Redeposition of hydrocarbon layers in fusion devices. <i>Journal of Nuclear Materials</i> , 2005 , 337-339, 839-846	3.3	74
75	Oxidative erosion of graphite in air between 600 and 1000 K. <i>Journal of Nuclear Materials</i> , 2005 , 341, 31-44	3.3	33
74	Bombardment of graphite with hydrogen isotopes: A model for the energy dependence of the chemical sputtering yield. <i>Journal of Nuclear Materials</i> , 2005 , 342, 141-147	3.3	37
73	Ion-induced surface activation, chemical sputtering, and hydrogen release during plasma-assisted hydrocarbon film growth. <i>Journal of Applied Physics</i> , 2005 , 97, 094904	2.5	41
72	Chemical sputtering of carbon by nitrogen ions. <i>Applied Physics Letters</i> , 2005 , 86, 204103	3.4	39
71	Interaction of Low-Energy Ions and Hydrocarbon Radicals with Carbon Surfaces. <i>Springer Series in Chemical Physics</i> , 2005 , 249-285	0.3	3
70	Elementary processes in plasma-surface interaction: H-atom and ion-induced chemisorption of methyl on hydrocarbon film surfaces. <i>Progress in Surface Science</i> , 2004 , 76, 21-54	6.6	66
69	Modeling of hydrocarbon species in ECR methane plasmas. <i>Journal of Nuclear Materials</i> , 2003 , 313-316, 434-438	3.3	15
68	Can plasma experiments unravel microscopic surface processes in thin film growth and erosion? Implications of particle-beam experiments on the understanding of a-C:H growth. <i>Vacuum</i> , 2003 , 71, 361-376	3.7	11
67	Consequences of the temperature and flux dependent sticking coefficient of methyl radicals for nuclear fusion experiments. <i>Nuclear Fusion</i> , 2003 , 43, 25-29	3.3	14
66	Chemical sputtering of hydrocarbon films. <i>Journal of Applied Physics</i> , 2003 , 94, 2373-2380	2.5	98

65	The influence of hydrogen ion bombardment on plasma-assisted hydrocarbon film growth. <i>Diamond and Related Materials</i> , 2003 , 12, 85-89	3.5	28
64	Particle-beam experiment to study heterogeneous surface reactions relevant to plasma-assisted thin film growth and etching. <i>Review of Scientific Instruments</i> , 2003 , 74, 5123-5136	1.7	23
63	Direct verification of the ion-neutral synergism during hydrocarbon film growth. <i>Journal of Applied Physics</i> , 2003 , 93, 3352-3358	2.5	30
62	The energy influx during plasma deposition of amorphous hydrogenated carbon films. <i>Surface and Coatings Technology</i> , 2002 , 149, 206-216	4.4	14
61	Chemical sputtering of hydrocarbon films by low-energy Ar ⁺ ion and H atom impact. <i>Nuclear Fusion</i> , 2002 , 42, L27-L30	3.3	57
60	Hydrogen plasma treatment of poly(ethylene terephthalate) surfaces. <i>Surface and Coatings Technology</i> , 2001 , 138, 256-263	4.4	29
59	Progress of the European R&D on plasma-wall interactions, neutron effects and tritium removal in ITER plasma facing materials. <i>Fusion Engineering and Design</i> , 2001 , 56-57, 179-187	1.7	13
58	Surface reactions of hydrocarbon radicals: suppression of the re-deposition in fusion experiments via a divertor liner. <i>Journal of Nuclear Materials</i> , 2001 , 290-293, 231-237	3.3	27
57	Some problems arising due to plasma-surface interaction for operation of the in-vessel mirrors in a fusion reactor. <i>Journal of Nuclear Materials</i> , 2001 , 290-293, 336-340	3.3	45
56	Formation of Hard Amorphous Hydrogenated Carbon Films with Low Hydrogen Concentration and Their Erosion in Air. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 788-793	1.4	7
55	Quantification of a radical beam source for methyl radicals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 101-107	2.9	35
54	Simultaneous interaction of methyl radicals and atomic hydrogen with amorphous hydrogenated carbon films. <i>Journal of Applied Physics</i> , 2001 , 89, 2979-2986	2.5	56
53	Infrared analysis of thin films: amorphous, hydrogenated carbon on silicon. <i>Brazilian Journal of Physics</i> , 2000 , 30, 508-516	1.2	13
52	Quantitative analysis of deuterium in a-C:D layers, a Round Robin experiment. <i>Journal of Nuclear Materials</i> , 2000 , 281, 42-56	3.3	18
51	Direct identification of the synergism between methyl radicals and atomic hydrogen during growth of amorphous hydrogenated carbon films. <i>Applied Physics Letters</i> , 2000 , 76, 676-678	3.4	66
50	Novel method for absolute quantification of the flux and angular distribution of a radical source for atomic hydrogen. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 995-1001	2.9	56
49	Surface loss probabilities of hydrocarbon radicals on amorphous hydrogenated carbon film surfaces. <i>Journal of Applied Physics</i> , 2000 , 87, 2719-2725	2.5	77
48	Amorphous hydrogenated carbon films as barrier for gas permeation through polymer films. <i>Diamond and Related Materials</i> , 2000 , 9, 1971-1978	3.5	48

47	Surface Loss Probabilities of Neutral Hydrocarbon Radicals on Amorphous Hydrogenated Carbon Film Surfaces: Consequences For The Formation of Re-Deposited Layers in Fusion Experiments 2000 , 331-337		3
46	Surface loss probabilities of hydrocarbon radicals on amorphous hydrogenated carbon film surfaces: Consequences for the formation of re-deposited layers in fusion experiments. <i>Nuclear Fusion</i> , 1999 , 39, 1451-1462	3.3	87
45	Surface loss probabilities of the dominant neutral precursors for film growth in methane and acetylene discharges. <i>Applied Physics Letters</i> , 1999 , 74, 3800-3802	3.4	48
44	Erosion behavior of soft, amorphous deuterated carbon films by heat treatment in air and under vacuum. <i>Journal of Nuclear Materials</i> , 1999 , 264, 56-70	3.3	71
43	Erosion of thin hydrogenated carbon films in oxygen, oxygen/hydrogen and water plasmas. <i>Journal of Nuclear Materials</i> , 1999 , 264, 48-55	3.3	58
42	Removal of codeposited layers by ECR discharge cleaning. <i>Journal of Nuclear Materials</i> , 1999 , 266-269, 552-556	3.3	29
41	In-vessel tritium retention and removal in ITER. <i>Journal of Nuclear Materials</i> , 1999 , 266-269, 14-29	3.3	205
40	Plasma chemical vapor deposition of hydrocarbon films: The influence of hydrocarbon source gas on the film properties. <i>Journal of Applied Physics</i> , 1999 , 86, 3988-3996	2.5	202
39	Structure of plasma-deposited amorphous hydrogenated boron-carbon thin films. <i>Thin Solid Films</i> , 1998 , 312, 147-155	2.2	31
38	Surface reactions during growth and erosion of hydrocarbon films. <i>Thin Solid Films</i> , 1998 , 326, 1-42	2.2	330
37	Determination of the absolute CH ₃ radical flux emanating from a methane electron cyclotron resonance plasma. <i>Applied Physics Letters</i> , 1998 , 73, 31-33	3.4	36
36	Transport and structural modification during nitrogen implantation of hard amorphous carbon films. <i>Journal of Applied Physics</i> , 1998 , 83, 5185-5194	2.5	23
35	Surface relaxation during plasma-enhanced chemical vapor deposition of hydrocarbon films, investigated by in situ ellipsometry. <i>Journal of Applied Physics</i> , 1997 , 81, 1531-1535	2.5	47
34	Chemical erosion of amorphous hydrogenated boron films. <i>Applied Physics Letters</i> , 1997 , 71, 1326-1328	3.4	20
33	On the presence of molecular nitrogen in nitrogen-implanted amorphous carbon. <i>Applied Physics Letters</i> , 1997 , 70, 1387-1389	3.4	17
32	Interaction of hydrogen plasmas with hydrocarbon films, investigated by infrared spectroscopy using an optical cavity substrate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 402-407	2.9	24
31	Hydrogen bonding in plasma-deposited amorphous hydrogenated boron films. <i>Journal of Applied Physics</i> , 1997 , 82, 1905-1908	2.5	28
30	Deposition and characterization of dense and stable amorphous hydrogenated boron films at low substrate temperatures. <i>Journal of Non-Crystalline Solids</i> , 1997 , 209, 240-246	3.9	17

29	Surface relaxation during plasma chemical vapor deposition of diamond-like carbon films, investigated by in-situ ellipsometry. <i>Thin Solid Films</i> , 1997 , 308-309, 195-198	2.2	3
28	Stability of plasma-deposited amorphous hydrogenated boron films. <i>Thin Solid Films</i> , 1997 , 300, 101-106	2.2	15
27	Oxidation and hydrogen isotope exchange in amorphous, deuterated carbon films. <i>Journal of Nuclear Materials</i> , 1997 , 245, 66-71	3.3	69
26	Release of deuterium from carbon-deuterium films on beryllium during carbide formation and oxidation. <i>Journal of Nuclear Materials</i> , 1997 , 250, 23-28	3.3	37
25	Secondary electron emission coefficient of C:H and Si:C thin films and some relations to their morphology and composition. <i>Diamond and Related Materials</i> , 1996 , 5, 1087-1095	3.5	1
24	Growth and erosion of hydrocarbon films investigated by in situ ellipsometry. <i>Journal of Applied Physics</i> , 1996 , 79, 1092	2.5	123
23	Experimental determination of the absorption strength of CH vibrations for infrared analysis of hydrogenated carbon films. <i>Applied Physics Letters</i> , 1996 , 68, 475-477	3.4	80
22	Erosion of amorphous hydrogenated boron-carbon thin films. <i>Journal of Nuclear Materials</i> , 1996 , 231, 151-154	3.3	11
21	Mechanisms of the Deposition of Hydrogenated Carbon Films. <i>Japanese Journal of Applied Physics</i> , 1995 , 34, 2163-2171	1.4	50
20	New calibration method for the determination of the absolute density of CH radicals through laser-induced fluorescence. <i>Applied Optics</i> , 1995 , 34, 4542-51	1.7	14
19	Role of hydrogen ions in plasma-enhanced chemical vapor deposition of hydrocarbon films, investigated by in situ ellipsometry. <i>Applied Physics Letters</i> , 1995 , 66, 1322-1324	3.4	35
18	Absolute density determination of CH radicals in a methane plasma. <i>Applied Physics Letters</i> , 1994 , 64, 971-973	3.4	23
17	Laser-induced coalescence of gold clusters in fluorocarbon composite thin films. <i>Applied Surface Science</i> , 1994 , 79-80, 196-202	6.7	13
16	On the structure of thin hydrocarbon films. <i>Applied Physics Letters</i> , 1993 , 63, 1771-1773	3.4	169
15	Ion energy distributions from electron cyclotron resonance methane plasmas. <i>Diamond and Related Materials</i> , 1993 , 2, 378-382	3.5	12
14	Influence of the ion energy on the growth and structure of thin hydrocarbon films. <i>Journal of Applied Physics</i> , 1993 , 74, 1354-1361	2.5	96
13	Influence of a direct current bias on the energy of ions from an electron cyclotron resonance plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992 , 10, 434-438	2.9	46
12	Pyrolysis and laser ablation of plasma-polymerized fluorocarbon films: Effects of gold particles. <i>Journal of Applied Physics</i> , 1992 , 72, 2462-2471	2.5	8

11	The bandstructure of Pd(110) above the fermi level. <i>Applied Physics A: Solids and Surfaces</i> , 1990 , 50, 207-214		13
10	The Schottky Contact in a Xe/Metal Interface Probed by Inverse Photoemission. <i>Perspectives in Condensed Matter Physics</i> , 1990 , 238-243		
9	Alkali-metal oxides. II. Unoccupied and excited states. <i>Physical Review B</i> , 1989 , 39, 6087-6095	3.3	18
8	Alkali metal oxides: Occupied, unoccupied and excited states. <i>Applied Physics A: Solids and Surfaces</i> , 1988 , 47, 87-89		7
7	Xe and K coadsorption on Ag(110): Observation of a wetting-to-nonwetting phase transition. <i>Physical Review B</i> , 1987 , 36, 2421-2424	3.3	12
6	Potassium-induced empty electronic states on Ag(110). <i>Physical Review B</i> , 1987 , 35, 5910-5912	3.3	48
5	The adsorption of Xenon on both low and high work-function metals. <i>Applied Physics A: Materials Science and Processing</i> , 1987 , 44, 93-95	2.6	10
4	Atomic adsorption of oxygen on Cu(111) and Cu(110). <i>Applied Physics A: Solids and Surfaces</i> , 1986 , 41, 145-150		76
3	Bulk, surface and thermal effects in inverse photoemission spectra from Cu(100), Cu(110) and Cu(111). <i>European Physical Journal B</i> , 1986 , 63, 459-470	1.2	102
2	Inverse photoemission of adsorbed xenon multilayers on Ru(001): Refutation of final-state screening effects. <i>Physical Review Letters</i> , 1986 , 57, 1643-1646	7.4	52
1	Inverse photoemission studies of oxygen on Ni(110) and Ni(100). <i>Surface Science</i> , 1985 , 154, 695-703	1.8	24