

# Pascal Brault

## List of Publications by Citations

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

143 papers	3,015 citations	31 h-index	48 g-index
150 ext. papers	3,376 ext. citations	4 avg, IF	5.09 L-index

#	Paper	IF	Citations
143	Synthesis and photocatalytic properties of BiOCl nanowire arrays. <i>Materials Letters</i> , <b>2010</b> , 64, 115-118	3.3	140
142	Thermal stability of AlCoCrCuFeNi high entropy alloy thin films studied by in-situ XRD analysis. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 1989-1992	4.4	104
141	Complex structure/composition relationship in thin films of AlCoCrCuFeNi high entropy alloy. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 117, 142-147	4.4	97
140	Molecular dynamics for low temperature plasma-surface interaction studies. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 194011	3	93
139	Performance of plasma sputtered fuel cell electrodes with ultra-low Pt loadings. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 859-861	5.1	91
138	Silicon roughness induced by plasma etching. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 7498-7506	2.5	85
137	PdAu/C catalysts prepared by plasma sputtering for the electro-oxidation of glycerol. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 107, 372-379	21.8	76
136	Silicon columnar microstructures induced by an SF <sub>6</sub> /O <sub>2</sub> plasma. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 3395-3402	3	71
135	Structure of Pt/C and PtRu/C catalytic layers prepared by plasma sputtering and electric performance in direct methanol fuel cells (DMFC). <i>Journal of Power Sources</i> , <b>2006</b> , 162, 66-73	8.9	70
134	Plasma sputtering deposition of platinum into porous fuel cell electrodes. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 3419-3423	3	70
133	AlCoCrCuFeNi high entropy alloy cluster growth and annealing on silicon: A classical molecular dynamics simulation study. <i>Applied Surface Science</i> , <b>2013</b> , 285, 810-816	6.7	64
132	The hybrid solid oxide fuel cell (SOFC) and gas turbine (GT) systems steady state modeling. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9237-9248	6.7	63
131	Deposition and diffusion of platinum nanoparticles in porous carbon assisted by plasma sputtering. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 391-394	4.4	63
130	BiOCl nano/microstructures on substrates: Synthesis and photocatalytic properties. <i>Materials Letters</i> , <b>2011</b> , 65, 1344-1347	3.3	56
129	Helium retention and early stages of helium-vacancy complexes formation in low energy helium-implanted tungsten. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 433, 305-313	3.3	54
128	Improvement of proton exchange membrane fuel cell electrical performance by optimization of operating parameters and electrodes preparation. <i>Journal of Power Sources</i> , <b>2007</b> , 172, 613-622	8.9	52
127	Molecular dynamics simulation of AlCoCrCuFeNi high entropy alloy thin film growth. <i>Intermetallics</i> , <b>2016</b> , 68, 78-86	3.5	49

126	Plasma based platinum nanoaggregates deposited on carbon nanofibers improve fuel cell efficiency. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 223119	3.4	46
125	Low energy and low fluence helium implantations in tungsten: Molecular dynamics simulations and experiments. <i>Journal of Nuclear Materials</i> , <b>2016</b> , 470, 44-54	3.3	41
124	Anomalous diffusion mediated by atom deposition into a porous substrate. <i>Physical Review Letters</i> , <b>2009</b> , 102, 045901	7.4	41
123	Stable C-atom displacements on HOPG surface under plasma low-energy argon-ion bombardment. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 77, 591-597	2.6	41
122	Nucleation and initial growth of platinum islands by plasma sputter deposition. <i>Surface and Coatings Technology</i> , <b>2002</b> , 151-152, 122-127	4.4	40
121	Yttria-stabilized zirconia thin films deposited by pulsed-laser deposition and magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 4495-4499	4.4	39
120	High Performance plasma sputtered PdPt fuel cell electrodes with ultra low loading. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8429-8434	6.7	38
119	Percolative growth of palladium ultrathin films deposited by plasma sputtering. <i>Surface Science</i> , <b>1998</b> , 406, L597-L602	1.8	37
118	Plasma Sputtering Deposition of PEMFC Porous Carbon Platinum Electrodes. <i>Fuel Cells</i> , <b>2008</b> , 8, 81-86	2.9	37
117	Low energy plasma treatment of Nafion <sup>®</sup> membranes for PEM fuel cells. <i>Journal of Power Sources</i> , <b>2007</b> , 165, 41-48	8.9	36
116	Molecular dynamic simulation of binary ZrxCu <sub>100-x</sub> metallic glass thin film growth. <i>Applied Surface Science</i> , <b>2013</b> , 274, 164-170	6.7	35
115	Trapping and release of helium in tungsten. <i>Journal of Nuclear Materials</i> , <b>2011</b> , 416, 13-17	3.3	35
114	Solid polymer fuel cell synthesis by low pressure plasmas: a short review. <i>EPJ Applied Physics</i> , <b>2006</b> , 34, 151-156	1.1	33
113	Membranes produced by plasma enhanced chemical vapor deposition technique for low temperature fuel cell applications. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 232-238	8.9	31
112	Roughness scaling of plasma-etched silicon surfaces. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, L27-L32	1.32	31
111	Molecular dynamics simulations of clusters and thin film growth in the context of plasma sputtering deposition. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 224004	3	30
110	IR emission from the target during plasma magnetron sputter deposition. <i>Thin Solid Films</i> , <b>2013</b> , 545, 44-49	2.2	30
109	Methane combustion over Pd/ZrO <sub>2</sub> /SiC, Pd/CeO <sub>2</sub> /SiC, and Pd/Zr <sub>0.5</sub> Ce <sub>0.5</sub> O <sub>2</sub> /SiC catalysts. <i>Catalysis Communications</i> , <b>2011</b> , 12, 870-874	3.2	30

108	Deposition and structure of W/Cu multilayer coatings by magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 2709-2713	3	30
107	Molecular Dynamics Simulations for Plasma-Surface Interactions. <i>Plasma Processes and Polymers</i> , <b>2017</b> , 14, 1600145	3.4	28
106	Integrated plasma synthesis of efficient catalytic nanostructures for fuel cell electrodes. <i>Nanotechnology</i> , <b>2007</b> , 18, 305603	3.4	28
105	Pd nanoclusters grown by plasma sputtering deposition on amorphous substrates. <i>Applied Surface Science</i> , <b>2000</b> , 158, 172-183	6.7	28
104	Plasma deposition of catalytic thin films: Experiments, applications, molecular modeling. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, S15-S23	4.4	27
103	Synergistic Combination of Plasma Sputtered Pd/Cu Bimetallic Nanoparticles for Catalytic Methane Combustion. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 11240-11246	3.8	26
102	Ni-YSZ films deposited by reactive magnetron sputtering for SOFC applications. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 2376-2380	4.4	26
101	Comparison of Pd/(Bulk SiC) Catalysts Prepared by Atomic Beam Deposition and Plasma Sputtering Deposition: Characterization and Catalytic Properties. <i>Journal of Catalysis</i> , <b>2000</b> , 190, 49-59	7.3	24
100	Molecular dynamics simulations of supported metal nanocatalyst formation by plasma sputtering. <i>Catalysis Today</i> , <b>2015</b> , 256, 3-12	5.3	23
99	Efficient amorphous platinum catalyst cluster growth on porous carbon: A combined molecular dynamics and experimental study. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 162, 21-26	21.8	23
98	Chemical physics of fluorine plasma-etched silicon surfaces: Study of surface contaminations. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 1702-1709	2.5	23
97	Membrane patterned by pulsed laser micromachining for proton exchange membrane fuel cell with sputtered ultra-low catalyst loadings. <i>Journal of Power Sources</i> , <b>2015</b> , 298, 299-308	8.9	20
96	Effect of Nafion and platinum content in a catalyst layer processed in a radio frequency helicon plasma system. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 045207	3	20
95	The Low Temperature Adsorption of Oxygen on Rh(111). <i>Zeitschrift Fur Physikalische Chemie</i> , <b>1997</b> , 198, 1-17	3.1	20
94	Direct carbidation of titanium as a result of multipulse UV-laser irradiation of titanium samples in an ambient methane gas. <i>Applied Surface Science</i> , <b>1992</b> , 54, 349-352	6.7	20
93	Review of Low Pressure Plasma Processing of Proton Exchange Membrane Fuel Cell Electrocatalysts. <i>Plasma Processes and Polymers</i> , <b>2016</b> , 13, 10-18	3.4	19
92	Do not forget the electrochemical characteristics of the membrane electrode assembly when designing a Proton Exchange Membrane Fuel Cell stack. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 10406-10423	6.7	19
91	High-Entropy Alloys Deposited by Magnetron Sputtering. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 2478-2479	1.3	19

90	Carbon/platinum nanotextured films produced by plasma sputtering. <i>Carbon</i> , <b>2009</b> , 47, 209-214	10.4	19
89	Chemical and morphological characterization of Pd aggregates grown by plasma sputter deposition. <i>Journal Physics D: Applied Physics</i> , <b>1997</b> , 30, 3197-3202	3	19
88	Physical and optical properties of an antireflective layer based on SiOxNy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1997</b> , 15, 2777-2780	2.9	19
87	Optimization of DC Reactive Magnetron Sputtering Deposition Process for Efficient YSZ Electrolyte Thin Film SOFC. <i>Fuel Cells</i> , <b>2013</b> , 13, 279-288	2.9	18
86	PdPt catalyst synthesized using a gas aggregation source and magnetron sputtering for fuel cell electrodes. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 475302	3	18
85	Improvement of the sputtered platinum utilization in proton exchange membrane fuel cells using plasma-based carbon nanofibres. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 185307	3	18
84	Structural Evolution of Plasma-Sputtered CoreShell Nanoparticles for Catalytic Combustion of Methane. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24164-24171	3.8	17
83	Advances in measuring ocean salinity with an optical sensor. <i>Measurement Science and Technology</i> , <b>2011</b> , 22, 115202	2	17
82	Microscale Modeling of an Anode-Supported Planar Solid Oxide Fuel Cell. <i>Fuel Cells</i> , <b>2011</b> , 11, 184-199	2.9	16
81	Enhanced deposition rates in plasma sputter deposition. <i>Plasma Sources Science and Technology</i> , <b>1998</b> , 7, 245-251	3.5	16
80	Energy transferred to the substrate surface during reactive magnetron sputtering of aluminum in Ar/O <sub>2</sub> atmosphere. <i>Thin Solid Films</i> , <b>2013</b> , 539, 88-95	2.2	15
79	Molecular beam studies of sticking of oxygen on the Rh(111) surface. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 8876-8889	3.9	15
78	One-step synthesis and chemical characterization of Pt-C nanowire composites by plasma sputtering. <i>ChemSusChem</i> , <b>2013</b> , 6, 1168-71	8.3	14
77	Oscillating composition of FeW alloy thin films grown by magnetron co-sputtering. <i>Surface and Coatings Technology</i> , <b>2007</b> , 201, 7115-7121	4.4	14
76	Sputtered Ag thin films with modified morphologies: Influence on wetting property. <i>Applied Surface Science</i> , <b>2015</b> , 347, 101-108	6.7	13
75	About the key factors driving the resistivity of AuOx thin films grown by reactive magnetron sputtering. <i>Applied Surface Science</i> , <b>2014</b> , 295, 194-197	6.7	13
74	Helium desorption in <sup>3</sup> He implanted tungsten at low energy. <i>Journal of Nuclear Materials</i> , <b>2011</b> , 417, 504-507	3.3	13
73	Growth and ripening of two-dimensional palladium islands on Ni (111) surface. <i>Surface Science</i> , <b>1998</b> , 409, 452-457	1.8	12

72	Direct chemical deposition of platinum on ionic conductive membranes and evaluation of the electrocatalytic activity. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 1097-1101	5.1	12
71	Cluster organization in co-sputtered platinum-carbon films as revealed by grazing incidence X-ray scattering. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	11
70	Plasma assisted evaporation of palladium. <i>Plasma Sources Science and Technology</i> , <b>1996</b> , 5, 510-513	3.5	11
69	Thermal stability of metal nanoclusters formed by low-pressure plasma sputtering. <i>Thin Solid Films</i> , <b>2003</b> , 428, 242-247	2.2	11
68	Tuning growth from clusters to continuous ultrathin films: Experiments and molecular dynamics simulations of Pd plasma sputter deposition. <i>EPJ Applied Physics</i> , <b>2002</b> , 19, 83-87	1.1	11
67	Molecular Dynamics Calculations of CH <sub>3</sub> Sticking Coefficient onto Diamond Surfaces. <i>Plasma Processes and Polymers</i> , <b>2015</b> , 12, 764-770	3.4	10
66	Deposition of Pt inside fuel cell electrodes using high power impulse magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 272001	3	10
65	Density measurement of W thin films coating by combination of ion beam analysis and scanning electron microscopy. <i>EPJ Applied Physics</i> , <b>2005</b> , 31, 17-22	1.1	10
64	Plasma synthesis of catalytic thin films. <i>Pure and Applied Chemistry</i> , <b>2002</b> , 74, 471-474	2.1	10
63	Nanoscale mechanisms of CNT growth and etching in plasma environment. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 184001	3	9
62	Multiscale Molecular Dynamics Simulation of Plasma Processing: Application to Plasma Sputtering. <i>Frontiers in Physics</i> , <b>2018</b> , 6,	3.9	9
61	Deposition of platinum catalyst by plasma sputtering for fuel cells: 3D simulation and experiments. <i>Plasma Sources Science and Technology</i> , <b>2008</b> , 17, 035028	3.5	9
60	Palladium island growth on Ni(111) Stochastic classical trajectory and ghost atom calculations. <i>Surface Science</i> , <b>1996</b> , 360, 43-49	1.8	9
59	Adsorption and Diffusion of Hydrogen in Carbon Honeycomb. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
58	Low energy plasma treatment of a proton exchange membrane used for low temperature fuel cells. <i>Plasma Physics and Controlled Fusion</i> , <b>2007</b> , 49, A73-A79	2	8
57	Study of deposition and post-oxidation of d.c. magnetron sputtered W/Fe bilayers. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 408-412	4.4	8
56	Molecular Dynamics Simulations of Platinum Plasma Sputtering: A Comparative Case Study. <i>Frontiers in Physics</i> , <b>2016</b> , 4,	3.9	8
55	Evaluation of performance improvement by model predictive control in a renewable energy system with hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 21017-21029	6.7	8

54	Molecular dynamics simulations of initial Pd and PdO nanocluster growth in a magnetron gas aggregation source. <i>Frontiers of Chemical Science and Engineering</i> , <b>2019</b> , 13, 324-329	4.5	7
53	Platinum nanocluster growth on vertically aligned carbon nanofiber arrays: Sputtering experiments and molecular dynamics simulations. <i>Applied Surface Science</i> , <b>2012</b> , 263, 352-356	6.7	7
52	High Performance Plasma Sputtered Fuel Cell Electrodes with Ultra Low Catalytic Metal Loadings. <i>ECS Transactions</i> , <b>2011</b> , 41, 1151-1159	1	7
51	Electrical characterization of a dc secondary discharge created during plasma sputtering deposition of palladium thin films. <i>Plasma Sources Science and Technology</i> , <b>2000</b> , 9, 176-182	3.5	7
50	Early stages of silicon nitride film growth studied by molecular dynamics simulations. <i>Surface Science</i> , <b>2001</b> , 488, 133-140	1.8	7
49	Substrate temperature and ion kinetic energy effects on first steps of He <sup>+</sup> implantation in tungsten: Experiments and simulations. <i>Acta Materialia</i> , <b>2017</b> , 141, 47-58	8.4	7
48	Insights on the unique electro-catalytic behavior of PtBi/C materials. <i>Electrochimica Acta</i> , <b>2020</b> , 329, 135661	6.1	7
47	Molecular dynamics simulations of ternary Pt <sub>x</sub> Pd <sub>y</sub> Au <sub>z</sub> fuel cell nanocatalyst growth. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 22589-22597	6.7	7
46	The role of oxygen on the growth of palladium clusters synthesized by gas aggregation source. <i>Plasma Processes and Polymers</i> , <b>2019</b> , 16, e1900006	3.4	6
45	The impact of thermal annealing on the morphology of sputter deposited platinum clusters into anodic aluminum oxide pores. <i>Applied Surface Science</i> , <b>2013</b> , 266, 400-404	6.7	6
44	A planar anode-supported Solid Oxide Fuel Cell model with internal reforming of natural gas. <i>EPJ Applied Physics</i> , <b>2011</b> , 54, 23405	1.1	6
43	Polymer Electrolyte Fuel Cell Electrodes Grown by Vapor Deposition Techniques. <i>Chemical Vapor Deposition</i> , <b>2011</b> , 17, 296-304		6
42	Molecular dynamics simulations of palladium cluster growth on flat and rough graphite surfaces. <i>EPJ Applied Physics</i> , <b>2004</b> , 28, 43-50	1.1	6
41	Fluorine diffusion in silicon under plasma treatment. <i>Journal of Physics Condensed Matter</i> , <b>1991</b> , 3, 7073-7078	1.8	6
40	Synthesis of Platinum Nanoparticles by Plasma Sputtering onto Glycerol: Effect of Argon Pressure on Their Physicochemical Properties. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3169-3179	3.8	6
39	Enhanced anomalous diffusion of sputtered atoms in nanosized pores. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 2112-2116	3.3	5
38	Silicon dioxide chemical vapor deposition using silane and hydrogen peroxide. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1996</b> , 14, 2767		5
37	Plasma assisted deposition of Pd thin films. <i>Surface and Coatings Technology</i> , <b>1998</b> , 98, 1228-1232	4.4	5



- 36 A continuous non-linear shadowing model of columnar growth. *Journal Physics D: Applied Physics*, **2008**, 41, 022003 3 5
- 35 Plasma sputtering of an alloyed target for the synthesis of Zr-based metallic glass thin films. *Applied Physics A: Materials Science and Processing*, **2006**, 84, 465-470 2.6 5
- 34 The significance of energy storage for renewable energy generation and the role of instrumentation and measurement. *IEEE Instrumentation and Measurement Magazine*, **2014**, 17, 34-40 1.4 4
- 33 Effect of plasma and thermal annealing on chemical vapor deposition dielectrics grown using SiH<sub>4</sub>/H<sub>2</sub>O<sub>2</sub> gas mixtures. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1997**, 15, 2478-2484 2.9 4
- 32 Condensation coefficients in plasma sputtering deposition. *Journal Physics D: Applied Physics*, **2007**, 40, 2121-2123 3 4
- 31 The use of plasmas in catalysis: catalyst preparation and hydrogen production. *Annales De Chimie: Science Des Matériaux*, **2001**, 26, 69-77 2.1 4
- 30 Analysis of SF<sub>6</sub> and F<sub>2</sub> plasma etched silicon surfaces: An x-ray photoelectron spectroscopy investigation. *Applied Physics Letters*, **1990**, 57, 2649-2650 3.4 4
- 29 A solid oxide fuel cell micro-scale modeling with spherical particle shaped electrodes. *EPJ Applied Physics*, **2011**, 54, 23411 1.1 3
- 28 TCP Plasma Sputtering of Nanostructured Fuel Cell Electrodes. *IEEE Transactions on Plasma Science*, **2008**, 36, 872-873 1.3 3
- 27 Solid Polymer Fuel Cell synthesis by low pressure plasmas: a short review. *EPJ Applied Physics*, **2008**, 43, 137-137 1.1 3
- 26 Large area silicon epitaxy using pulsed DC magnetron sputtering deposition. *Microelectronic Engineering*, **2008**, 85, 636-639 2.5 3
- 25 In situ Raman spectroscopy of silicon surfaces during SF<sub>6</sub> plasma etching. *Journal of Physics Condensed Matter*, **1994**, 6, L1-L6 1.8 3
- 24 Integration of 3D nanographene into mesoporous germanium. *Nanoscale*, **2020**, 12, 23984-23994 7.7 3
- 23 An efficient way to evidence and to measure the metal ion fraction in high power impulse magnetron sputtering (HiPIMS) post-discharge with Pt, Au, Pd and mixed targets. *Journal of Plasma Physics*, **2016**, 82, 2.7 3
- 22 Pt<sub>3</sub>MeAu (Me = Ni, Cu) Fuel Cell Nanocatalyst Growth, Shapes, and Efficiency: A Molecular Dynamics Simulation Approach. *Journal of Physical Chemistry C*, **2019**, 123, 29656-29664 3.8 3
- 21 Low flux and low energy helium ion implantation into tungsten using a dedicated plasma source. *Nuclear Instruments & Methods in Physics Research B*, **2016**, 383, 38-46 1.2 2
- 20 Influence of the High-Power Impulse Magnetron Sputtering Voltage on the Time-Resolved Platinum Ions Energy Distributions. *IEEE Transactions on Plasma Science*, **2014**, 42, 2818-2819 1.3 2
- 19 Synthesis of Carbon Nanofibers and Pt-Nanocluster-Based Electrochemical Microsystems by Combining Low-Pressure Helicon Plasma Techniques. *IEEE Transactions on Plasma Science*, **2008**, 36, 882-883 1.3 2



18	Non-perturbative uniform wavefunctions of coupled radial Schrodinger equations. <i>Journal of Physics A</i> , <b>1988</b> , 21, L67-L73		2
17	Ballistic and molecular dynamics simulations of aluminum deposition in micro-trenches. <i>Thin Solid Films</i> , <b>2013</b> , 536, 115-123	2.2	1
16	Original Polystyrene Nanoballs Grown by Plasma Polymerization. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 2778-2779	1.3	1
15	Plasma Assisted Diffusion in Porous Materials: Experiments, Modeling and Applications. <i>Defect and Diffusion Forum</i> , <b>2012</b> , 323-325, 387-391	0.7	1
14	Transport and Deposition of Plasma-Sputtered Platinum Atoms: Comparison Between Experiments and Simulation. <i>IEEE Transactions on Plasma Science</i> , <b>2008</b> , 36, 884-885	1.3	1
13	VUV laser photoionization of laser-stimulated desorbed species. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, S171-S173	2.6	1
12	Insight into acetylene plasma deposition using molecular dynamics simulations. <i>Plasma Processes and Polymers</i> , e2100103	3.4	1
11	Statistical abundance and stability of carbon nanostructures by combined condensation-annealing molecular dynamics simulations. <i>Computational and Theoretical Chemistry</i> , <b>2021</b> , 1201, 113252	2	1
10	Nitrogen incorporation in graphene nanowalls via plasma processes: Experiments and simulations. <i>Applied Surface Science</i> , <b>2022</b> , 591, 153165	6.7	1
9	Laser reactivity of NH <sub>3</sub> on silicon: a laser multiphoton-ionisation mass spectrometry study. <i>Applied Surface Science</i> , <b>2002</b> , 186, 111-116	6.7	0
8	Multiscale Molecular Dynamics Simulations of Fuel Cell Nanocatalyst Plasma Sputtering Growth and Deposition. <i>Energies</i> , <b>2020</b> , 13, 3584	3.1	0
7	Insight into plasma degradation of paracetamol in water using a reactive molecular dynamics approach. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 183304	2.5	0
6	Binary and ternary Pt-based clusters grown in a plasma multimagnetron-based gas aggregation source: electrocatalytic evaluation towards glycerol oxidation. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1730-1740	5.1	0
5	On the role of ion potential energy in low energy HiPIMS deposition: An atomistic simulation. <i>Surface and Coatings Technology</i> , <b>2021</b> , 426, 127726	4.4	0
4	Uniform semiclassical treatment of the radial coupling term in the adiabatic basis: Application to the excitation transfer He(1S)+Ne <sup>2+</sup> (1D)→He(1S)+Ne <sup>2+</sup> (1S). <i>Physical Review A</i> , <b>1988</b> , 37, 2318-2334	2.6	
3	Influence of helium incorporation on growth process and properties of aluminum thin films deposited by DC magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2021</b> , 426, 127808	4.4	
2	Physique, Plasmas, Matériaux et Énergie : les piles à combustible <b>2013</b> , 22-26	0.1	
1	Far-and mid-infrared properties of carbon layers elaborated by plasma sputtering. <i>Applied Surface Science</i> , <b>2016</b> , 390, 1002-1008	6.7	

