

Christian Linsmeier

List of Publications by Year in Descending Order

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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.

293
papers

5,495
citations

37
h-index

60
g-index

301
ext. papers

6,319
ext. citations

2.6
avg, IF

5.57
L-index

#	Paper	IF	Citations
293	Beryllium erosion and redeposition in ITER H, He and D α discharges. <i>Nuclear Fusion</i> , 2022 , 62, 036011	3.3	1
292	Predictive 3D modelling of erosion and deposition in ITER with ERO2.0: from beryllium main wall, tungsten divertor to full-tungsten device. <i>Physica Scripta</i> , 2022 , 97, 014001	2.6	
291	Analysis of trapping sites for deuterium in WCrV SMART alloy. <i>Vacuum</i> , 2022 , 199, 110956	3.7	0
290	Manufacturing of W/steel composites using electro-discharge sintering process. <i>Nuclear Materials and Energy</i> , 2021 , 30, 101089	2.1	1
289	Influence of neon seeding on the deuterium retention and surface modification of ITER-like forged tungsten. <i>Nuclear Fusion</i> , 2021 , 61, 016007	3.3	2
288	Tungsten fiber reinforced tungsten (Wf/W) using yarn based textile preforms. <i>Physica Scripta</i> , 2021 , 96, 124063	2.6	0
287	Manufacturing of W-steel joint using plasma sprayed graded W/steel-interlayer with current assisted diffusion bonding. <i>Fusion Engineering and Design</i> , 2021 , 172, 112896	1.7	1
286	A sensitivity analysis of numerical predictions for beryllium erosion and migration in ITER. <i>Nuclear Materials and Energy</i> , 2021 , 26, 100904	2.1	4
285	Self-passivating smart tungsten alloys for DEMO: a progress in joining and upscale for a first wall mockup. <i>Tungsten</i> , 2021 , 3, 101-115	4.6	2
284	Hydrogen isotope permeation through yttria coatings on Eurofer in the diffusion limited regime. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 13142-13149	6.7	1
283	Smart alloys as armor material for DEMO: Overview of properties and joining to structural materials. <i>Fusion Engineering and Design</i> , 2021 , 166, 112272	1.7	3
282	Characteristics of Microstructure Evolution during FAST Joining of the Tungsten Foil Laminate. <i>Metals</i> , 2021 , 11, 886	2.3	1
281	Design improvements, assembly and testing of the ICRH antenna for W7-X. <i>Fusion Engineering and Design</i> , 2021 , 166, 112205	1.7	1
280	Data on erosion and hydrogen fuel retention in Beryllium plasma-facing materials. <i>Nuclear Materials and Energy</i> , 2021 , 27, 100994	2.1	7
279	Progress on MATEO probe heads and observation system. <i>Fusion Engineering and Design</i> , 2021 , 167, 112297	1.7	0
278	The impact of surface morphology on the erosion of metallic surfaces [Modelling with the 3D Monte-Carlo code ERO2.0. <i>Nuclear Materials and Energy</i> , 2021 , 27, 100987	2.1	6
277	Design of tungsten fiber-reinforced tungsten composites with porous matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 817, 141361	5.3	4

276	Advanced design of the ITER core CXRS shutter and integration into the diagnostic shield module of the Upper Port Plug No. 3. <i>Fusion Engineering and Design</i> , 2021 , 168, 112391	1.7	0
275	Fusion Reactor Materials 2021 , 594-619		
274	The upgraded TOMAS device: A toroidal plasma facility for wall conditioning, plasma production, and plasma-surface interaction studies. <i>Review of Scientific Instruments</i> , 2021 , 92, 023506	1.7	3
273	A New High-Throughput Focused MeV Ion-Beam Analysis Setup. <i>Instruments</i> , 2021 , 5, 10	1.2	2
272	In situ study of short-term retention of deuterium in tungsten during and after plasma exposure in PSI-2. <i>Nuclear Fusion</i> , 2021 , 61, 096006	3.3	3
271	Improving the W Coating Uniformity by a COMSOL Model-Based CVD Parameter Study for Denser Wf/W Composites. <i>Metals</i> , 2021 , 11, 1089	2.3	2
270	Simultaneous irradiation and thermal effects on 16 MeV proton irradiated tungsten samples. <i>Physica Scripta</i> , 2021 , 96, 124014	2.6	
269	On grain growth and phase precipitation behaviors during W-Cr-Zr alloy densification using field-assisted sintering technology. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 98, 105552	4.1	1
268	Influence of the applied pressure on the microstructure evolution of W-Cr-Y-Zr alloys during the FAST process. <i>Fusion Engineering and Design</i> , 2021 , 169, 112474	1.7	1
267	Advanced Self-Passivating Alloys for an Application under Extreme Conditions. <i>Metals</i> , 2021 , 11, 1255	2.3	0
266	Characterization of neutral particle fluxes from ICWC and ECWC plasmas in the TOMAS facility. <i>Physica Scripta</i> , 2021 , 96, 124025	2.6	1
265	Modeling and experimental validation of a Wf/W-fabrication by chemical vapor deposition and infiltration. <i>Nuclear Materials and Energy</i> , 2021 , 28, 101048	2.1	2
264	Derivation of an improved semi-empirical expression for the re-ionisation background in low energy ion scattering spectra. <i>IOP SciNotes</i> , 2021 , 2, 035206	1.2	
263	Short-term retention in metallic PFCs: modelling in view of mass spectrometry and LIBS. <i>Physica Scripta</i> , 2021 , 96, 124079	2.6	
262	Hydrogen permeation and retention in deuterium plasma exposed 316L ITER steel. <i>Nuclear Materials and Energy</i> , 2020 , 25, 100878	2.1	
261	Erosion and screening of tungsten during inter/intra-ELM periods in the JET-ILW divertor. <i>Nuclear Materials and Energy</i> , 2020 , 25, 100859	2.1	2
260	A high temperature dual-mode quartz crystal microbalance technique for erosion and thermal desorption spectroscopy measurements. <i>Review of Scientific Instruments</i> , 2020 , 91, 125104	1.7	2
259	Tungsten-Chromium-Yttrium alloys as first wall armor material: Yttrium concentration, oxygen content and transmutation elements. <i>Fusion Engineering and Design</i> , 2020 , 158, 111667	1.7	4

258	Tungsten nitride as tritium permeation barrier. <i>Nuclear Materials and Energy</i> , 2020 , 24, 100752	2.1	1
257	ERO2.0 modelling of the effects of surface roughness on molybdenum erosion and redeposition in the PSI-2 linear plasma device. <i>Physica Scripta</i> , 2020 , T171, 014057	2.6	14
256	Segregation and preferential sputtering of Cr in WCrY smart alloy. <i>Nuclear Materials and Energy</i> , 2020 , 22, 100736	2.1	2
255	Fiber Volume Fraction Influence on Randomly Distributed Short Fiber Tungsten Fiber-Reinforced Tungsten Composites. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901242	3.5	5
254	Overview of challenges and developments in joining tungsten and steel for future fusion reactors. <i>Physica Scripta</i> , 2020 , T171, 014028	2.6	16
253	CRDS modelling of deuterium release from co-deposited beryllium layers in temperature programmed and laser induced desorption experiments. <i>Physica Scripta</i> , 2020 , T171, 014053	2.6	2
252	The use of tungsten yarns in the production for W f /W. <i>Physica Scripta</i> , 2020 , T171, 014061	2.6	2
251	Peculiarity of highly radiating multi-impurity seeded H-mode plasmas on JET with ITER-like wall. <i>Physica Scripta</i> , 2020 , T171, 014055	2.6	3
250	Development of tungsten fiber-reinforced tungsten with a porous matrix. <i>Physica Scripta</i> , 2020 , T171, 014030	2.6	4
249	Smart Tungsten-based Alloys for a First Wall of DEMO. <i>Fusion Engineering and Design</i> , 2020 , 159, 111742	1.7	8
248	First Monte-Carlo modelling of global beryllium migration in ITER using ERO2.0. <i>Contributions To Plasma Physics</i> , 2020 , 60, e201900149	1.4	9
247	On the plasma suitability of WCrY smart alloys the effect of mixed D+Ar/He plasmas. <i>Physica Scripta</i> , 2020 , T171, 014002	2.6	4
246	Reversed-slit spectroscopy method for in situ measurement of H isotopes on plasma facing material. <i>Journal of Instrumentation</i> , 2020 , 15, C01007-C01007	1	
245	Preliminary study of a visible, high spatial resolution spectrometer for DEMO divertor survey. <i>Journal of Instrumentation</i> , 2020 , 15, C01008-C01008	1	2
244	Microstructural and micromechanical assessment of aged ultra-fast sintered functionally graded iron/tungsten composites. <i>Materials and Design</i> , 2020 , 191, 108652	8.1	5
243	The influence of heating rate on W-Cr-Zr alloy densification process and microstructure evolution during spark plasma sintering. <i>Powder Technology</i> , 2020 , 370, 9-18	5.2	7
242	Performance of Eurofer97 under deuterium plasma exposure with seeded impurities at elevated temperature. <i>Physica Scripta</i> , 2020 , T171, 014071	2.6	1
241	Efficiency of laser-induced desorption of D from Be/D layers and surface modifications due to LID. <i>Physica Scripta</i> , 2020 , T171, 014075	2.6	5

240	An in situ diagnostic method for monitoring of fuel retention on the first wall under long-pulse operation of experimental advanced superconducting tokamak. <i>Physica Scripta</i> , 2020 , T171, 014069	2.6	3
239	Investigation of laser ablation features of molybdenum bulk for picosecond laser-based techniques in fusion devices. <i>Fusion Engineering and Design</i> , 2020 , 151, 111379	1.7	11
238	Indentation testing on 3 MeV proton irradiated tungsten. <i>Nuclear Materials and Energy</i> , 2020 , 25, 100776.1	2.1	2
237	Temporally resolved LEIS measurements of Cr segregation after preferential sputtering of WCrY alloy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 479, 42-46	1.2	0
236	Micro-structured tungsten, a high heat flux pulse proof material. <i>Nuclear Materials and Energy</i> , 2020 , 25, 100789	2.1	2
235	Modeling and validation of chemical vapor deposition of tungsten for tungsten fiber reinforced tungsten composites. <i>Surface and Coatings Technology</i> , 2020 , 381, 124745	4.4	7
234	Emission of Fast Hydrogen Atoms in a Low Density Gas Discharge – The Most Natural Mirror Laboratory. <i>Atoms</i> , 2019 , 7, 81	2.1	1
233	Quantitative analysis of elemental depth on Wendelstein 7-X divertor baffle screws by picosecond laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019 , 160, 105689	3.1	10
232	Modelling of tungsten erosion and deposition in the divertor of JET-ILW in comparison to experimental findings. <i>Nuclear Materials and Energy</i> , 2019 , 18, 239-244	2.1	14
231	Diffusion model of the impact of helium and argon impurities on deuterium retention in tungsten. <i>Nuclear Fusion</i> , 2019 , 59, 046004	3.3	6
230	On the nature of carbon embrittlement of tungsten fibers during powder metallurgical processes. <i>Fusion Engineering and Design</i> , 2019 , 145, 18-22	1.7	13
229	Beryllium global erosion and deposition at JET-ILW simulated with ERO2.0. <i>Nuclear Materials and Energy</i> , 2019 , 18, 331-338	2.1	24
228	Fracture behavior of random distributed short tungsten fiber-reinforced tungsten composites. <i>Nuclear Fusion</i> , 2019 , 59, 086034	3.3	6
227	Spectroscopic studies of fuel recycling and impurity behaviors in the divertor region of Wendelstein 7-X. <i>Plasma Science and Technology</i> , 2019 , 21, 105102	1.5	2
226	Endoscopes for observation of plasma-wall interactions in the divertor of Wendelstein 7-X. <i>Fusion Engineering and Design</i> , 2019 , 146, 19-22	1.7	1
225	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET-ILW and PISCES-B experience. <i>Nuclear Materials and Energy</i> , 2019 , 19, 510-515	2.1	10
224	Modeling of H/D isotope-exchange in crystalline beryllium. <i>Nuclear Materials and Energy</i> , 2019 , 20, 100682.1	2.1	1
223	Optimization of single crystal mirrors for ITER diagnostics. <i>Fusion Engineering and Design</i> , 2019 , 146, 1450-1453	1.7	5

222	On the use of rhodium mirrors for optical diagnostics in ITER. <i>Fusion Engineering and Design</i> , 2019 , 146, 2514-2518	1.7	5
221	Laser-Induced Desorption of co-deposited Deuterium in Beryllium Layers on Tungsten. <i>Nuclear Materials and Energy</i> , 2019 , 19, 503-509	2.1	6
220	Surface roughness effect on Mo physical sputtering and re-deposition in the linear plasma device PSI-2 predicted by ERO2.0. <i>Nuclear Materials and Energy</i> , 2019 , 19, 13-18	2.1	18
219	Atmospheric plasma spraying of functionally graded steel/tungsten layers for the first wall of future fusion reactors. <i>Surface and Coatings Technology</i> , 2019 , 366, 170-178	4.4	27
218	Materials development for new high heat-flux component mock-ups for DEMO. <i>Fusion Engineering and Design</i> , 2019 , 146, 1431-1436	1.7	11
217	Sublimation of advanced tungsten alloys under DEMO relevant accidental conditions. <i>Fusion Engineering and Design</i> , 2019 , 146, 1198-1202	1.7	8
216	Conceptual studies on spectroscopy and radiation diagnostic systems for plasma control on DEMO. <i>Fusion Engineering and Design</i> , 2019 , 146, 2297-2301	1.7	6
215	Comparison of the hydrogen permeation through fusion relevant steels and the influence of oxidized and rough surfaces. <i>Nuclear Materials and Energy</i> , 2019 , 19, 55-58	2.1	10
214	Nano-structured tungsten: an advanced plasma-facing material. <i>Nuclear Materials and Energy</i> , 2019 , 19, 7-12	2.1	10
213	On the possibility of track length based Monte-Carlo algorithms for stationary drift-diffusion systems with sources and sinks. <i>Journal of Computational Physics</i> , 2019 , 377, 219-231	4.1	3
212	Insight into single-fiber push-out test of tungsten fiber-reinforced tungsten. <i>Composite Interfaces</i> , 2019 , 26, 107-126	2.3	5
211	Diffusivity of hydrogen and properties of point defects in beryllium investigated by DFT. <i>Journal of Nuclear Materials</i> , 2019 , 524, 323-329	3.3	4
210	Fuel Retention Diagnostic Setup (FREDIS) for desorption of gases from beryllium and tritium containing samples. <i>Fusion Engineering and Design</i> , 2019 , 146, 1176-1180	1.7	4
209	Argon-seeded plasma exposure and oxidation performance of tungsten-chromium-yttrium smart alloys. <i>Tungsten</i> , 2019 , 1, 159-168	4.6	7
208	Preferential sputtering induced Cr-Diffusion during plasma exposure of WCrY smart alloys. <i>Journal of Nuclear Materials</i> , 2019 , 526, 151767	3.3	3
207	Influence of plasma impurities on the fuel retention in tungsten. <i>Nuclear Fusion</i> , 2019 , 59, 086029	3.3	13
206	Erosion and deposition investigations on Wendelstein 7-X first wall components for the first operation phase in divertor configuration. <i>Fusion Engineering and Design</i> , 2019 , 146, 242-245	1.7	13
205	Ultra-fast sintered functionally graded Fe/W composites for the first wall of future fusion reactors. <i>Composites Part B: Engineering</i> , 2019 , 164, 205-214	10	33

204	An upgraded LIBS system on linear plasma device PSI-2 for in situ diagnostics of plasma-facing materials. <i>Fusion Engineering and Design</i> , 2019 , 146, 96-99	1.7	8
203	Plastic deformation of tungsten due to deuterium plasma exposure: Insights from micro-compression tests. <i>Scripta Materialia</i> , 2019 , 162, 132-135	5.6	10
202	Evaluation of the high temperature oxidation of W-Cr-Zr self-passivating alloys. <i>Corrosion Science</i> , 2019 , 147, 201-211	6.8	15
201	Design status of the ITER core CXRS diagnostic setup. <i>Fusion Engineering and Design</i> , 2019 , 146, 228-231	1.7	3
200	Diagnostic setup for the divertor manipulator at wendelstein 7-X. <i>Nuclear Materials and Energy</i> , 2019 , 18, 77-81	2.1	5
199	Determination of tungsten sources in the JET-ILW divertor by spectroscopic imaging in the presence of a strong plasma continuum. <i>Nuclear Materials and Energy</i> , 2019 , 18, 118-124	2.1	9
198	Depth resolved analysis of hydrogen in W7-X graphite components using laser-induced ablation-quadrupole mass spectrometry (LIA-QMS). <i>Nuclear Materials and Energy</i> , 2019 , 18, 153-158	2.1	11
197	Smart first wall materials for intrinsic safety of a fusion power plant. <i>Fusion Engineering and Design</i> , 2018 , 136, 878-882	1.7	10
196	Probe manipulators for Wendelstein 7-X and their interaction with the magnetic topology. <i>Plasma Science and Technology</i> , 2018 , 20, 054002	1.5	
195	Influence of the interface strength on the mechanical properties of discontinuous tungsten fiber-reinforced tungsten composites produced by field assisted sintering technology. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 107, 342-353	8.4	46
194	Ablation mass features in multi-pulses femtosecond laser ablate molybdenum target. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 418, 54-59	1.2	8
193	Crack bridging in as-fabricated and embrittled tungsten single fibre-reinforced tungsten composites shown by a novel in-situ high energy synchrotron tomography bending test. <i>Nuclear Materials and Energy</i> , 2018 , 15, 1-12	2.1	13
192	Depth-resolved sample composition analysis using laser-induced ablation-quadrupole mass spectrometry and laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018 , 144, 38-45	3.1	10
191	Reaction-diffusion modeling of hydrogen transport and surface effects in application to single-crystalline Be. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 430, 23-30	1.2	14
190	On Oxidation Resistance Mechanisms at 1273 K of Tungsten-Based Alloys Containing Chromium and Ytria. <i>Metals</i> , 2018 , 8, 488	2.3	13
189	Aggravated blistering and increased deuterium retention in iron-damaged tungsten after exposure to deuterium plasma with various surface temperatures. <i>Nuclear Fusion</i> , 2018 , 58, 106005	3.3	9
188	An ultraviolet-visible-near infrared overview spectroscopy for divertor plasma diagnosis on Wendelstein 7-X. <i>AIP Advances</i> , 2018 , 8, 085011	1.5	5
187	Real-time protection of the JET ITER-like wall based on near infrared imaging diagnostic systems. <i>Nuclear Fusion</i> , 2018 , 58, 106021	3.3	9

186	Temperature-dependent in-situ LEIS measurement of W surface enrichment by 250 eV D sputtering of EUROFER. <i>Nuclear Materials and Energy</i> , 2018 , 16, 181-190	2.1	9
185	Aiming at understanding thermo-mechanical loads in the first wall of DEMO: Stress-strain evolution in a Eurofer-tungsten test component featuring a functionally graded interlayer. <i>Fusion Engineering and Design</i> , 2018 , 135, 141-153	1.7	18
184	Laser induced ablation spectroscopy for in situ characterization of the first wall on EAST tokamak. <i>Fusion Engineering and Design</i> , 2018 , 135, 95-101	1.7	14
183	WCrY smart alloys as advanced plasma-facing materials Exposure to steady-state pure deuterium plasmas in PSI-2. <i>Nuclear Materials and Energy</i> , 2018 , 15, 220-225	2.1	15
182	Modelling of plasma-wall interaction and impurity transport in fusion devices and prompt deposition of tungsten as application. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 014041	2	21
181	Identification of BeO and BeOxDy in melted zones of the JET Be limiter tiles: Raman study using comparison with laboratory samples. <i>Nuclear Materials and Energy</i> , 2018 , 17, 295-301	2.1	11
180	Impact of Kr and Ar seeding on D retention in ferritic-martensitic steels after high-fluence plasma exposure. <i>Nuclear Materials and Energy</i> , 2018 , 17, 307-313	2.1	1
179	Influence of the grain structure of yttria thin films on the hydrogen isotope permeation. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22976-22985	6.7	8
178	Plasma exposures of a high-conductivity graphitic foam for plasma facing components. <i>Nuclear Materials and Energy</i> , 2018 , 17, 123-128	2.1	4
177	Hydrogen embrittlement of tungsten induced by deuterium plasma: Insights from nanoindentation tests. <i>Journal of Materials Research</i> , 2018 , 33, 3530-3536	2.5	19
176	Improved pseudo-ductile behavior of powder metallurgical tungsten short fiber-reinforced tungsten (Wf/W). <i>Nuclear Materials and Energy</i> , 2018 , 15, 214-219	2.1	23
175	Oxidation resistance of bulk plasma-facing tungsten alloys. <i>Nuclear Materials and Energy</i> , 2018 , 15, 226-231	2.1	20
174	Modelling of deposition and erosion of injected WF6 and MoF6 in TEXTOR. <i>Nuclear Materials and Energy</i> , 2017 , 12, 564-568	2.1	2
173	Surface modification of He pre-exposed tungsten samples by He plasma impact in the divertor manipulator of ASDEX Upgrade. <i>Nuclear Materials and Energy</i> , 2017 , 12, 575-581	2.1	12
172	Design and development of a LIBS system on linear plasma device PSI-2 for in situ real-time diagnostics of plasma-facing materials. <i>Nuclear Materials and Energy</i> , 2017 , 12, 1224-1230	2.1	7
171	Smart alloys for a future fusion power plant: First studies under stationary plasma load and in accidental conditions. <i>Nuclear Materials and Energy</i> , 2017 , 12, 1363-1367	2.1	17
170	Hydrogen saturation and permeation barrier performance of yttrium oxide coatings. <i>Fusion Engineering and Design</i> , 2017 , 124, 1140-1143	1.7	20
169	A multi-purpose manipulator system for W7-X as user facility for plasma edge investigation. <i>Fusion Engineering and Design</i> , 2017 , 123, 960-964	1.7	37

168	Preparing the future post-mortem analysis of beryllium-based JET and ITER samples by multi-wavelengths Raman spectroscopy on implanted Be, and co-deposited Be. <i>Nuclear Fusion</i> , 2017 , 57, 076035	3.3	5
167	Advanced smart tungsten alloys for a future fusion power plant. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 064003	2	21
166	Smart tungsten alloys as a material for the first wall of a future fusion power plant. <i>Nuclear Fusion</i> , 2017 , 57, 066020	3.3	32
165	Development of advanced high heat flux and plasma-facing materials. <i>Nuclear Fusion</i> , 2017 , 57, 092007	3.3	137
164	Major results from the first plasma campaign of the Wendelstein 7-X stellarator. <i>Nuclear Fusion</i> , 2017 , 57, 102020	3.3	88
163	Design of an ICRF system for plasma-wall interactions and RF plasma production studies on TOMAS. <i>Fusion Engineering and Design</i> , 2017 , 123, 317-320	1.7	3
162	Improving accuracy of Penning gauge spectroscopy for the determination of hydrogen isotope H/D ratios. <i>Fusion Engineering and Design</i> , 2017 , 123, 906-910	1.7	5
161	The effect of the isotope on the H-mode density limit. <i>Nuclear Fusion</i> , 2017 , 57, 086007	3.3	8
160	First direct comparative test of single crystal rhodium and molybdenum mirrors for ITER diagnostics. <i>Fusion Engineering and Design</i> , 2017 , 123, 674-677	1.7	13
159	The influence of annealing on yttrium oxide thin film deposited by reactive magnetron sputtering: Process and microstructure. <i>Nuclear Materials and Energy</i> , 2017 , 10, 1-8	2.1	26
158	Tensile deformation behavior of tungsten fibre-reinforced tungsten composite specimens in as-fabricated state. <i>Fusion Engineering and Design</i> , 2017 , 124, 396-400	1.7	32
157	In-situ mass-spectrometer of magnetized plasmas. <i>Nuclear Materials and Energy</i> , 2017 , 12, 1243-1247	2.1	6
156	Comparative H-mode density limit studies in JET and AUG. <i>Nuclear Materials and Energy</i> , 2017 , 12, 100-110	2.1	7
155	Advanced materials for a damage resilient divertor concept for DEMO: Powder-metallurgical tungsten-fibre reinforced tungsten. <i>Fusion Engineering and Design</i> , 2017 , 124, 964-968	1.7	32
154	The microstructure of tungsten exposed to D plasma with different impurities. <i>Nuclear Materials and Energy</i> , 2017 , 12, 302-306	2.1	14
153	Plasma-wall interaction of advanced materials. <i>Nuclear Materials and Energy</i> , 2017 , 12, 307-312	2.1	13
152	Dynamic outgassing of deuterium, helium and nitrogen from plasma-facing materials under DEMO relevant conditions. <i>Nuclear Fusion</i> , 2017 , 57, 016020	3.3	12
151	Tensile behaviour of drawn tungsten wire used in tungsten fibre-reinforced tungsten composites. <i>Physica Scripta</i> , 2017 , T170, 014032	2.6	13

150	In situ investigation of helium fuzz growth on tungsten in relation to ion flux, fluence, surface temperature and ion energy using infrared imaging in PSI-2. <i>Physica Scripta</i> , 2017 , T170, 014017	2.6	7
149	Laser-induced breakdown spectroscopy for Wendelstein 7-X stellarator limiter tile analysis. <i>Physica Scripta</i> , 2017 , T170, 014004	2.6	13
148	Development and characterization of powder metallurgically produced discontinuous tungsten fiber reinforced tungsten composites. <i>Physica Scripta</i> , 2017 , T170, 014005	2.6	15
147	Deuterium retention in RAFM steels after high fluence plasma exposure. <i>Nuclear Materials and Energy</i> , 2017 , 12, 648-654	2.1	12
146	Material testing facilities and programs for plasma-facing component testing. <i>Nuclear Fusion</i> , 2017 , 57, 092012	3.3	41
145	Development and analyses of self-passivating tungsten alloys for DEMO accidental conditions. <i>Fusion Engineering and Design</i> , 2017 , 124, 183-186	1.7	25
144	Response of the imaging cameras to hard radiation during JET operation. <i>Fusion Engineering and Design</i> , 2017 , 123, 669-673	1.7	8
143	ERO modeling of beryllium erosion by helium plasma in experiments at PISCES-B. <i>Nuclear Materials and Energy</i> , 2017 , 12, 1157-1162	2.1	6
142	Theoretical investigation on the point defect formation energies in beryllium and comparison with experiments. <i>Nuclear Materials and Energy</i> , 2017 , 12, 453-457	2.1	10
141	Surface modifications and deuterium retention in polycrystalline and single crystal tungsten as a function of particle flux and temperature. <i>Journal of Nuclear Materials</i> , 2017 , 495, 211-219	3.3	14
140	Experimental data on low energy electron impact ionisation of W. <i>Physica Scripta</i> , 2017 , T170, 014075	2.6	
139	Development of laser-based technology for the routine first wall diagnostic on the tokamak EAST: LIBS and LIAS. <i>Physica Scripta</i> , 2017 , T170, 014046	2.6	8
138	The near infrared imaging system for the real-time protection of the JET ITER-like wall. <i>Physica Scripta</i> , 2017 , T170, 014027	2.6	7
137	New oxidation-resistant tungsten alloys for use in the nuclear fusion reactors. <i>Physica Scripta</i> , 2017 , T170, 014012	2.6	28
136	Diagnostic set-up and modelling for investigation of synergy between 3D edge physics and plasma-wall interactions on Wendelstein 7-X. <i>Nuclear Fusion</i> , 2017 , 57, 066049	3.3	14
135	First ERO2.0 modeling of Be erosion and non-local transport in JET ITER-like wall. <i>Physica Scripta</i> , 2017 , T170, 014018	2.6	16
134	The microstructure of reduced activation ferritic/martensitic (RAFM) steels exposed to D plasma with different seeding impurities. <i>Physica Scripta</i> , 2017 , T170, 014036	2.6	10
133	Preparation of erosion and deposition investigations on plasma facing components in Wendelstein 7-X. <i>Physica Scripta</i> , 2017 , T170, 014010	2.6	9

132	PlasmaWall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. <i>Nuclear Fusion</i> , 2017 , 57, 116041	3.3	50
131	Development of tungsten fibre-reinforced tungsten composites towards their use in DEMO Potassium doped tungsten wire. <i>Physica Scripta</i> , 2016 , T167, 014006	2.6	60
130	Quartz Crystal Microbalances for quantitative picosecond laser-material-interaction investigations Part I: Technical considerations. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016 , 126, 79-83	3.1	6
129	Modeling of crack formation after pulse heat load in ITER-grade tungsten 2016 ,		2
128	Modelling of Impurity Transport and PlasmaWall Interaction in Fusion Devices with the ERO Code: Basics of the Code and Examples of Application. <i>Contributions To Plasma Physics</i> , 2016 , 56, 622-627	1.4	16
127	Observation of dust particles ejected from tungsten surface under impact of intense transient heat load 2016 ,		4
126	Chemically deposited tungsten fibre-reinforced tungsten The way to a mock-up for divertor applications. <i>Nuclear Materials and Energy</i> , 2016 , 9, 75-83	2.1	43
125	Behavior of tungsten fiber-reinforced tungsten based on single fiber push-out study. <i>Nuclear Materials and Energy</i> , 2016 , 9, 416-421	2.1	23
124	Morphology and composition of FeW coatings after deuterium plasma exposure as a model system for RAFM steels. <i>Physica Scripta</i> , 2016 , T167, 014013	2.6	8
123	Impact on the deuterium retention of simultaneous exposure of tungsten to a steady state plasma and transient heat cycling loads. <i>Physica Scripta</i> , 2016 , T167, 014046	2.6	8
122	Time resolved imaging of laser induced ablation spectroscopy (LIAS) in TEXTOR and comparison with modeling. <i>Physica Scripta</i> , 2016 , T167, 014034	2.6	12
121	Properties of drawn W wire used as high performance fibre in tungsten fibre-reinforced tungsten composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 139, 012043	0.4	27
120	Development of yttrium-containing self-passivating tungsten alloys for future fusion power plants. <i>Nuclear Materials and Energy</i> , 2016 , 9, 394-398	2.1	45
119	Materials for DEMO and reactor applications Boundary conditions and new concepts. <i>Physica Scripta</i> , 2016 , T167, 014002	2.6	68
118	Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. <i>Physica Scripta</i> , 2016 , T167, 014077	2.6	14
117	Deuterium retention in tungsten under combined high cycle ELM-like heat loads and steady-state plasma exposure. <i>Nuclear Materials and Energy</i> , 2016 , 9, 157-164	2.1	5
116	Advanced tungsten materials for plasma-facing components of DEMO and fusion power plants. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 1046-1052	1.7	57
115	Simulation of neutron irradiation damage in tungsten using higher energy protons. <i>Nuclear Materials and Energy</i> , 2016 , 9, 29-35	2.1	17

114	Recent ASDEX Upgrade research in support of ITER and DEMO. <i>Nuclear Fusion</i> , 2015 , 55, 104010	3.3	13
113	Raman microscopy as a defect microprobe for hydrogen bonding characterization in materials used in fusion applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 98-101		3
112	Plasma-wall interactions with nitrogen seeding in all-metal fusion devices: Formation of nitrides and ammonia. <i>Fusion Engineering and Design</i> , 2015 , 98-99, 1371-1374	1.7	26
111	Calculation of cracking under pulsed heat loads in tungsten manufactured according to ITER specifications. <i>Journal of Nuclear Materials</i> , 2015 , 467, 165-171	3.3	23
110	Powder Metallurgical Tungsten Fiber-Reinforced Tungsten. <i>Materials Science Forum</i> , 2015 , 825-826, 125-133	4.3	24
109	Hydrogen retention in beryllium: concentration effect and nanocrystalline growth. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 475401	1.8	13
108	Combined impact of transient heat loads and steady-state plasma exposure on tungsten. <i>Fusion Engineering and Design</i> , 2015 , 98-99, 1328-1332	1.7	16
107	Mirror Station for studies of the protection of diagnostic mirrors from impurity contamination in ITER: Design and first results. <i>Fusion Engineering and Design</i> , 2015 , 96-97, 290-293	1.7	5
106	DFT studies of hydrogen retention in beryllium nitride. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16419-16428	6.7	5
105	Influence of plasma impurities on the deuterium retention in tungsten exposed in the linear plasma generator PSI-2. <i>Journal of Nuclear Materials</i> , 2015 , 463, 1021-1024	3.3	27
104	Conceptual study of ferromagnetic pebbles for heat exhaust in fusion reactors with short power decay length. <i>Nuclear Materials and Energy</i> , 2015 , 2, 12-19	2.1	3
103	Studies of protection and recovery techniques of diagnostic mirrors for ITER. <i>Nuclear Fusion</i> , 2015 , 55, 093015	3.3	10
102	Overview of the JET results. <i>Nuclear Fusion</i> , 2015 , 55, 104001	3.3	34
101	Influence of tungsten microstructure and ion flux on deuterium plasma-induced surface modifications and deuterium retention. <i>Journal of Nuclear Materials</i> , 2015 , 463, 320-324	3.3	29
100	Density limit of H-mode plasmas on JET-ILW. <i>Journal of Nuclear Materials</i> , 2015 , 463, 445-449	3.3	8
99	Beryllium migration in JET ITER-like wall plasmas. <i>Nuclear Fusion</i> , 2015 , 55, 063021	3.3	70
98	Thermally activated reaction-diffusion-controlled chemical bulk reactions of gases and solids. <i>Nuclear Materials and Energy</i> , 2015 , 1, 1-7	2.1	4
97	Materials R&D for a timely DEMO: Key findings and recommendations of the EU Roadmap Materials Assessment Group. <i>Fusion Engineering and Design</i> , 2014 , 89, 1586-1594	1.7	99

96	Cold atmospheric plasma – A new technology for spacecraft component decontamination. <i>Planetary and Space Science</i> , 2014 , 90, 60-71	2	22
95	Developing structural, high-heat flux and plasma facing materials for a near-term DEMO fusion power plant: The EU assessment. <i>Journal of Nuclear Materials</i> , 2014 , 455, 277-291	3.3	172
94	Enhanced toughness and stable crack propagation in a novel tungsten fibre-reinforced tungsten composite produced by chemical vapour infiltration. <i>Physica Scripta</i> , 2014 , T159, 014031	2.6	51
93	Implantation and erosion of nitrogen in tungsten. <i>New Journal of Physics</i> , 2014 , 16, 093018	2.9	36
92	Interaction of nitrogen ions with beryllium surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 340, 34-38	1.2	5
91	Tungsten erosion under combined hydrogen/helium high heat flux loading. <i>Physica Scripta</i> , 2014 , T159, 014019	2.6	9
90	Erosion behavior of actively cooled tungsten under H/He high heat flux load. <i>Journal of Nuclear Materials</i> , 2013 , 438, S921-S924	3.3	12
89	Investigation of European tungsten materials exposed to high heat flux H/He neutral beams. <i>Journal of Nuclear Materials</i> , 2013 , 442, S256-S260	3.3	20
88	Absorption and diffusion of beryllium in graphite, beryllium carbide formation investigated by density functional theory. <i>Journal of Applied Physics</i> , 2013 , 113, 213514	2.5	15
87	Deuterium trapping and release in Be(0001), Be(11 $\bar{2}$ 0) and polycrystalline beryllium. <i>Journal of Nuclear Materials</i> , 2013 , 438, S1072-S1075	3.3	11
86	Quantitative depth-resolved photoelectron spectroscopy analysis of the interaction of energetic oxygen ions with the beryllium-tungsten alloy Be ₂ W. <i>Journal of Nuclear Materials</i> , 2013 , 438, S766-S770	3.3	6
85	A brief summary of the progress on the EFDA tungsten materials program. <i>Journal of Nuclear Materials</i> , 2013 , 442, S173-S180	3.3	63
84	Roughening and reflection performance of molybdenum coatings exposed to a high-flux deuterium plasma. <i>Nuclear Fusion</i> , 2013 , 53, 113013	3.3	9
83	Oxidation of beryllium and exposure of beryllium oxide to deuterium plasmas in PISCES B. <i>Journal of Nuclear Materials</i> , 2013 , 438, S1044-S1047	3.3	12
82	Experimental resolution of deuterium and hydrogen depth profiling with the nuclear reactions D(3He,p) α and p(15N, α) ¹² C. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 121-125	1.2	5
81	First nitrogen-seeding experiments in JET with the ITER-like Wall. <i>Journal of Nuclear Materials</i> , 2013 , 438, S258-S261	3.3	57
80	Can aluminium or magnesium be a surrogate for beryllium: A critical investigation of their chemistry. <i>Fusion Engineering and Design</i> , 2013 , 88, 1718-1721	1.7	43
79	In situ synchrotron tomography estimation of toughening effect by semi-ductile fibre reinforcement in a tungsten-fibre-reinforced tungsten composite system. <i>Acta Materialia</i> , 2013 , 61, 7060-7071	8.4	90

78	Surface modification of molten W exposed to high heat flux helium neutral beams. <i>Journal of Nuclear Materials</i> , 2013 , 437, 297-302	3.3	23
77	Adsorption of beryllium atoms and clusters both on graphene and in a bilayer of graphite investigated by DFT. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 015002	1.8	11
76	Advanced materials characterization and modeling using synchrotron, neutron, TEM, and novel micro-mechanical techniques A European effort to accelerate fusion materials development. <i>Journal of Nuclear Materials</i> , 2013 , 442, S834-S845	3.3	8
75	Recent progress in research on tungsten materials for nuclear fusion applications in Europe. <i>Journal of Nuclear Materials</i> , 2013 , 432, 482-500	3.3	494
74	Summary of the ARIES Town Meeting: Edge Plasma Physics and Plasma Material Interactions in the Fusion Power Plant Regime Nuclear Fusion, 2013 , 53, 027003	3.3	1
73	Influence of CFC quality on the performance of TS limiter elements under cyclic heat loading. <i>Fusion Engineering and Design</i> , 2011 , 86, 1579-1582	1.7	4
72	Surface chemistry of first wall materials From fundamental data to modeling. <i>Journal of Nuclear Materials</i> , 2011 , 415, S212-S218	3.3	16
71	Interaction of energetic oxygen ions with the beryllium tungsten alloy Be2W. <i>Physica Scripta</i> , 2011 , T145, 014015	2.6	4
70	Micro-chemical analysis of high heat loaded CFC/Cu interfaces from Tore Supra and Wendelstein 7-X. <i>Physica Scripta</i> , 2011 , T145, 014079	2.6	
69	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
68	Oxidation behaviour of silicon-free tungsten alloys for use as the first wall material. <i>Physica Scripta</i> , 2011 , T145, 014019	2.6	44
67	Neutron computed tomography of plasma facing components for fusion experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 651, 202-204	1.2	1
66	Deuterium release from implanted beryllium and beryllium oxide. <i>Journal of Nuclear Materials</i> , 2011 , 415, S724-S727	3.3	23
65	Investigation of W components exposed to high thermal and high H/He fluxes. <i>Journal of Nuclear Materials</i> , 2011 , 417, 495-498	3.3	34
64	Review on the EFDA programme on tungsten materials technology and science. <i>Journal of Nuclear Materials</i> , 2011 , 417, 463-467	3.3	139
63	Effect of target surface on the elastic properties of fast fullerenes. <i>Physical Review B</i> , 2011 , 83,	3.3	3
62	Retention and release mechanisms of deuterium implanted into beryllium. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 1266-1270	1.2	20
61	Strong metal-support interactions on rhodium model catalysts. <i>Applied Catalysis A: General</i> , 2011 , 391, 175-186	5.1	41

60	Optimized analysis of deuterium depth profiles in beryllium. <i>Physica Scripta</i> , 2011 , T145, 014011	2.6	3
59	Neutron tomography as a new method for the three-dimensional structure analysis of CFC as plasma-facing material. <i>Physica Scripta</i> , 2011 , T145, 014074	2.6	1
58	Interaction of nitrogen plasmas with tungsten. <i>Nuclear Fusion</i> , 2010 , 50, 025006	3.3	54
57	Resonant electron capture by C60 ions at a metal surface with projected band gap. <i>Physical Review B</i> , 2010 , 81,	3.3	9
56	Quantum Modeling of Hydrogen Retention in Beryllium Bulk and Vacancies. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3588-3598	3.8	46
55	Properties of nitrogen-implanted beryllium and its interaction with energetic deuterium. <i>Nuclear Fusion</i> , 2010 , 50, 125001	3.3	23
54	Quantum modeling (DFT) and experimental investigation of beryllium-tungsten alloy formation. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 355011	1.8	15
53	Retention mechanisms and binding states of deuterium implanted into beryllium. <i>New Journal of Physics</i> , 2009 , 11, 043023	2.9	64
52	Ion implanted deuterium retention and release from clean and oxidized beryllium. <i>Journal of Nuclear Materials</i> , 2009 , 390-391, 568-571	3.3	17
51	Investigation of chemical phase formation in the ternary system beryllium, carbon and tungsten with depth-resolved photoelectron spectroscopy. <i>Journal of Nuclear Materials</i> , 2009 , 390-391, 975-978	3.3	9
50	Structure-dependent deuterium release from ion implanted beryllium: Comparison between Be(11. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 718-722	1.2	13
49	Review of the high heat flux testing as an integrated part of W7-X divertor development. <i>Fusion Engineering and Design</i> , 2009 , 84, 848-852	1.7	21
48	Towards a detailed understanding of the mechanisms of hydrogen retention in beryllium. <i>Physica Scripta</i> , 2009 , T138, 014036	2.6	11
47	Carbon reaction and diffusion on Ni(111), Ni(100), and Fe(110): Kinetic parameters from x-ray photoelectron spectroscopy and density functional theory analysis. <i>Journal of Chemical Physics</i> , 2008 , 129, 084704	3.9	41
46	A Seamless Modeling Approach for Service-Oriented Information Systems 2008 ,		4
45	Quantum study of tungsten interaction with beryllium (0001). <i>Journal of Physics: Conference Series</i> , 2008 , 117, 012002	0.3	16
44	Deuterium retention in tungsten exposed to low-energy, high-flux clean and carbon-seeded deuterium plasmas. <i>Journal of Nuclear Materials</i> , 2008 , 375, 192-201	3.3	68
43	Thermally induced reaction and diffusion of carbon films on Ni(1 1 1) and Ni(1 0 0). <i>Surface Science</i> , 2008 , 602, 3623-3631	1.8	11

42	Enhanced room temperature erosion of ultra-thin carbon films on beryllium, titanium and tantalum by deuterium ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 258, 270-273	1.2	1
41	The approach to diamond growth on levitating seed particles. <i>Applied Surface Science</i> , 2007 , 254, 177-186.	7	2
40	Tungsten sputtering and accumulation of implanted carbon and deuterium by simultaneous bombardment with D and C ions. <i>Journal of Nuclear Materials</i> , 2007 , 363-365, 1184-1189	3-3	17
39	Binary beryllium-tungsten mixed materials. <i>Journal of Nuclear Materials</i> , 2007 , 363-365, 1129-1137	3-3	57
38	Beryllium deposition on International Thermonuclear Experimental Reactor first mirrors: Layer morphology and influence on mirror reflectivity. <i>Journal of Applied Physics</i> , 2007 , 102, 083302	2-5	29
37	Temperature programmed desorption of 1 keV deuterium implanted into clean beryllium. <i>Physica Scripta</i> , 2007 , T128, 111-114	2-6	20
36	Interaction of beryllium containing plasma with ITER materials. <i>Physica Scripta</i> , 2007 , T128, 115-120	2-6	31
35	Structural investigation of the Be-W intermetallic system. <i>Physica Scripta</i> , 2007 , T128, 133-136	2-6	15
34	Surface alloying of thin beryllium films on tungsten. <i>New Journal of Physics</i> , 2006 , 8, 181-181	2-9	38
33	Strong binding of bioactive BMP-2 to nanocrystalline diamond by physisorption. <i>Biomaterials</i> , 2006 , 27, 4547-56	15-6	88
32	Formation of a surface alloy in the beryllium-tungsten system. <i>Journal of Nuclear Materials</i> , 2005 , 337-339, 951-955	3-3	23
31	Composition and hydrogen isotope retention analysis of co-deposited C/Be layers. <i>Journal of Nuclear Materials</i> , 2005 , 337-339, 590-594	3-3	50
30	Formation of D inventories and structural modifications by deuterium bombardment of tungsten thin films. <i>Journal of Nuclear Materials</i> , 2005 , 337-339, 965-969	3-3	8
29	A round robin characterisation of the thickness and composition of thin to ultra-thin AlNO films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 227, 397-419	1-2	5
28	Silver metal organic chemical vapor deposition for advanced silver metallization. <i>Microelectronic Engineering</i> , 2005 , 82, 296-300	2-5	37
27	Silver Metallization with Reactively Sputtered TiN Diffusion Barrier Films. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 812, F8.3.1		3
26	Carbon-containing compounds on fusion-related surfaces: Thermal and ion-induced formation and erosion. <i>AIP Conference Proceedings</i> , 2004 ,	0	2
25	Measurement of beryllium depth profiles in carbon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 219-220, 947-952	1-2	13

24	Formation of endothermic carbides on iron and nickel. <i>Physica Status Solidi A</i> , 2004 , 201, 881-887		69
23	Thermal stability of titanium nitride diffusion barrier films for advanced silver interconnects. <i>Microelectronic Engineering</i> , 2004 , 76, 76-81	2.5	37
22	Metalorganic chemical vapor deposition of silver thin films for future interconnects by direct liquid injection system. <i>Materials Science in Semiconductor Processing</i> , 2004 , 7, 331-335	4.3	21
21	Formation and Erosion of Carbon-Containing Mixed Materials on Metals. <i>Physica Scripta</i> , 2004 , T111, 86	2.6	7
20	Deuterium bombardment of carbon and carbon layers on titanium. <i>Journal of Nuclear Materials</i> , 2003 , 313-316, 56-61	3.3	11
19	Mixed material formation and erosion. <i>Journal of Nuclear Materials</i> , 2001 , 290-293, 25-32	3.3	32
18	Influence of oxygen on the carbide formation on tungsten. <i>Journal of Nuclear Materials</i> , 2001 , 290-293, 121-125	3.3	29
17	Surface reactions on beryllium after carbon vapour deposition and thermal treatment. <i>Journal of Nuclear Materials</i> , 2001 , 290-293, 76-79	3.3	21
16	Formation of mixed layers and compounds on beryllium due to C ⁺ and CO ⁺ bombardment. <i>Journal of Nuclear Materials</i> , 2001 , 290-293, 71-75	3.3	11
15	Ion beam-induced carbide formation at the the titanium-carbon interface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 182, 218-226	1.2	22
14	Influence of support and promotor on the catalytic activity of Rh/VO _x /SiO ₂ model catalysts. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 4639-4643	3.6	10
13	Characterization of Electron Beam Evaporated Carbon Films and Compound Formation on Titanium and Silicon. <i>Physica Scripta</i> , 2001 , T91, 134	2.6	19
12	ARTOSS ? A New Surface Science Experiment to Study the Hydrogen Inventory in Multi-Component Materials. <i>Physica Scripta</i> , 2001 , T94, 28	2.6	16
11	Molybdenum oxide based partial oxidation catalyst: 1. Thermally induced oxygen deficiency, elemental and structural heterogeneity and the relation to catalytic performance. <i>Journal of Molecular Catalysis A</i> , 2000 , 162, 463-492		82
10	Combined ion and electron spectroscopy study of the surface reactions of beryllium with carbon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 161-163, 411-414	1.2	14
9	Carbon films and carbide formation on tungsten. <i>Surface Science</i> , 2000 , 454-456, 78-82	1.8	108
8	Reactions of oxygen atoms and molecules with Au, Be, and W surfaces. <i>Surface Science</i> , 2000 , 454-456, 305-309	1.8	49
7	Erosion of beryllium and deposition of carbon and oxygen due to bombardment with C ⁺ and CO ⁺ ions. <i>Journal of Nuclear Materials</i> , 1999 , 266-269, 581-586	3.3	8

6	Depth profile analysis of strong metal-support interactions on model catalysts. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 118, 533-540	1.2	9
5	Auger electron spectroscopy. <i>Vacuum</i> , 1994 , 45, 673-690	3.7	14
4	Ion scattering and Auger electron spectroscopy analysis of alumina-supported rhodium model catalysts. <i>Surface Science</i> , 1992 , 275, 101-113	1.8	17
3	Ion scattering analysis of alumina supported model catalysts. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 64, 596-602	1.2	15
2	Plasma-wall interaction studies in W7-X: Main results from the recent divertor operations. <i>Physica Scripta</i> ,	2.6	2
1	Plasma-Surface Interaction in the stellarator W7-X: Conclusions drawn from operation with graphite Plasma-Facing Components. <i>Nuclear Fusion</i> ,	3.3	5