

Wolfgang Ensinger

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425
papers

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44
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445
ext. papers

9,509
ext. citations

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6.15
L-index

#	Paper	IF	Citations
425	Single conical nanopores displaying pH-tunable rectifying characteristics. manipulating ionic transport with zwitterionic polymer brushes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2070-1	16.4	303
424	A pH-tunable nanofluidic diode with a broad range of rectifying properties. <i>ACS Nano</i> , 2009 , 3, 603-8	16.7	287
423	Synthetic proton-gated ion channels via single solid-state nanochannels modified with responsive polymer brushes. <i>Nano Letters</i> , 2009 , 9, 2788-93	11.5	273
422	Layer-by-layer assembly of polyelectrolytes into ionic current rectifying solid-state nanopores: insights from theory and experiment. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8338-48	16.4	236
421	Biosensing and supramolecular bioconjugation in single conical polymer nanochannels. Facile incorporation of biorecognition elements into nanoconfined geometries. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16351-7	16.4	236
420	Ionic transport through single solid-state nanopores controlled with thermally nanoactuated macromolecular gates. <i>Small</i> , 2009 , 5, 1287-91	11	216
419	Morphological evolution of Au nanowires controlled by Rayleigh instability. <i>Nanotechnology</i> , 2006 , 17, 5954-5959	3.4	213
418	Low energy ion assist during deposition: an effective tool for controlling thin film microstructure. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 127-128, 796-808	1.2	153
417	Hydrogen peroxide sensing with horseradish peroxidase-modified polymer single conical nanochannels. <i>Analytical Chemistry</i> , 2011 , 83, 1673-80	7.8	151
416	Highly-ordered supportless three-dimensional nanowire networks with tunable complexity and interwire connectivity for device integration. <i>Nano Letters</i> , 2011 , 11, 2304-10	11.5	149
415	Sequence-specific recognition of DNA oligomer using peptide nucleic acid (PNA)-modified synthetic ion channels: PNA/DNA hybridization in nanoconfined environment. <i>ACS Nano</i> , 2010 , 4, 7267-74	16.7	138
414	Single cigar-shaped nanopores functionalized with amphoteric amino acid chains: experimental and theoretical characterization. <i>ACS Nano</i> , 2012 , 6, 3631-40	16.7	114
413	Metal ion affinity-based biomolecular recognition and conjugation inside synthetic polymer nanopores modified with iron-terpyridine complexes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17307-14	16.4	111
412	Logic gates using nanofluidic diodes based on conical nanopores functionalized with polyprotic acid chains. <i>Langmuir</i> , 2009 , 25, 11993-7	4	105
411	Proton-regulated rectified ionic transport through solid-state conical nanopores modified with phosphate-bearing polymer brushes. <i>Chemical Communications</i> , 2010 , 46, 1908-10	5.8	103
410	Calcium binding and ionic conduction in single conical nanopores with polyacid chains: model and experiments. <i>ACS Nano</i> , 2012 , 6, 9247-57	16.7	97
409	Modifying the surface charge of single-track-etched conical nanopores in polyimide. <i>Nanotechnology</i> , 2008 , 19, 085713	3.4	87

408	Synthesis of gold nanowires with controlled crystallographic characteristics. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 84, 403-407	2.6	83
407	Multilayer Al ₂ O ₃ /TiO ₂ Atomic Layer Deposition coatings for the corrosion protection of stainless steel. <i>Thin Solid Films</i> , 2012 , 522, 283-288	2.2	81
406	Biosensing with functionalized single asymmetric polymer nanochannels. <i>Macromolecular Bioscience</i> , 2010 , 10, 28-32	5.5	80
405	Ion-beam-assisted coatings for corrosion protection studies. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989 , 116, 1-14	5.3	73
404	Electroless synthesis of nanostructured nickel and nickel boron tubes and their performance as unsupported ethanol electrooxidation catalysts. <i>Journal of Power Sources</i> , 2013 , 222, 243-252	8.9	70
403	Biomolecular conjugation inside synthetic polymer nanopores via glycoprotein-lectin interactions. <i>Nanoscale</i> , 2011 , 3, 1894-903	7.7	69
402	Bioconjugation-induced ionic current rectification in aptamer-modified single cylindrical nanopores. <i>Chemical Communications</i> , 2015 , 51, 3454-7	5.8	66
401	Optical Gating of Photosensitive Synthetic Ion Channels. <i>Advanced Functional Materials</i> , 2012 , 22, 390-396	5.6	60
400	Influence of crystallinity on the Rayleigh instability of gold nanowires. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 3767-3770	3	60
399	Growth of thin films with preferential crystallographic orientation by ion bombardment during deposition. <i>Surface and Coatings Technology</i> , 1994 , 65, 90-105	4.4	59
398	On the mechanism of crystal growth orientation of ion beam assisted deposited thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 106, 142-146	1.2	58
397	Ion bombardment during thin film deposition and its influence on mechanical and chemical surface properties. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991 , 59-60, 173-181	1.2	58
396	Preparation and antibacterial properties of Ag-containing diamond-like carbon films prepared by a combination of magnetron sputtering and plasma source ion implantation. <i>Vacuum</i> , 2013 , 89, 179-184	3.7	57
395	Carbohydrate-Mediated Biomolecular Recognition and Gating of Synthetic Ion Channels. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18234-18242	3.8	55
394	Ion sources for ion beam assisted thin-film deposition). <i>Review of Scientific Instruments</i> , 1992 , 63, 5217-5233	5.2	53
393	Formation of titanium oxide films on titanium and Ti6Al4V by O ₂ -plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2000 , 132, 111-116	4.4	52
392	Plasma and ion-beam-assisted deposition of multilayers for tribological and corrosion protection. <i>Surface and Coatings Technology</i> , 1993 , 60, 561-565	4.4	51
391	A facile route for the preparation of azide-terminated polymers. Clicking polyelectrolyte brushes on planar surfaces and nanochannels. <i>Polymer Chemistry</i> , 2010 , 1, 183-192	4.9	50

390	Thermally controlled permeation of ionic molecules through synthetic nanopores functionalized with amine-terminated polymer brushes. <i>Nanotechnology</i> , 2012 , 23, 225502	3-4	49
389	Ligand-optimized electroless synthesis of silver nanotubes and their activity in the reduction of 4-nitrophenol. <i>Nanotechnology</i> , 2011 , 22, 415602	3-4	49
388	A comparison of the corrosion behaviour and hardness of steel samples (100Cr6) coated with titanium nitride and chromium nitride by different institutions using different deposition techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 140, 625-630	5-3	49
387	Fabrication of single cylindrical Au-coated nanopores with non-homogeneous fixed charge distribution exhibiting high current rectifications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12486-94	9-5	47
386	Ion bombardment effects during deposition of nitride and metal films. <i>Surface and Coatings Technology</i> , 1998 , 99, 1-13	4-4	47
385	Fabrication and functionalization of single asymmetric nanochannels for electrostatic/hydrophobic association of protein molecules. <i>Nanotechnology</i> , 2008 , 19, 485711	3-4	47
384	Mixed Phase Anatase/rutile Titanium Dioxide Nanotubes for Enhanced Photocatalytic Degradation of Methylene-blue. <i>Nano-Micro Letters</i> , 2011 , 3, 236-241	19-5	46
383	In situ derivatization/solid-phase microextraction: determination of polar aromatic amines. <i>Analytical Chemistry</i> , 2004 , 76, 1028-38	7-8	46
382	Low-temperature formation of metastable cubic tantalum nitride by metal condensation under ion irradiation. <i>Journal of Applied Physics</i> , 1995 , 77, 6630-6635	2-5	46
381	Microstructural investigations on titanium nitride films formed by medium energy ion beam assisted deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 1409-1414	1-2	44
380	Lithium Ion Recognition with Nanofluidic Diodes through Host-Guest Complexation in Confined Geometries. <i>Analytical Chemistry</i> , 2018 , 90, 6820-6826	7-8	42
379	Analytical investigations concerning the wear behaviour of cutting tools used for the machining of compacted graphite iron and grey cast iron. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008 , 26, 197-206	4-1	42
378	Combined in situ infrared and mass spectrometric analysis of high-energy heavy ion induced degradation of polyvinyl polymers. <i>Polymer Chemistry</i> , 2014 , 5, 1001-1012	4-9	41
377	A comparison of IBAD films for wear and corrosion protection with other PVD coatings. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 445-454	1-2	41
376	Equipment for ion beam assisted deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 21, 570-573	1-2	41
375	Degradation of polyimide under irradiation with swift heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 236, 456-460	1-2	40
374	Label-Free Pyrophosphate Recognition with Functionalized Asymmetric Nanopores. <i>Small</i> , 2016 , 12, 2014-21	11	40
373	Ionic Transport through Chemically Functionalized Hydrogen Peroxide-Sensitive Asymmetric Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19541-5	9-5	39

372	Modification of mechanical and chemical surface properties of metals by plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 1998 , 100-101, 341-352	4.4	39
371	Are coatings produced by ion-beam-assisted deposition superior? A comparison of chemical and mechanical properties of steel coated using different deposition techniques. <i>Surface and Coatings Technology</i> , 1992 , 51, 217-221	4.4	39
370	Surface modification and corrosion properties of implanted and DLC coated stainless steel by plasma based ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2014 , 256, 23-29	4.4	38
369	Chemical and mechanical characterization of TiO ₂ /Al ₂ O ₃ atomic layer depositions on AISI 316 L stainless steel. <i>Surface and Coatings Technology</i> , 2012 , 211, 84-88	4.4	38
368	ATP-modulated ionic transport through synthetic nanochannels. <i>Chemical Communications</i> , 2010 , 46, 6690-2	5.8	38
367	Multiple activation of ion track etched polycarbonate for the electroless synthesis of metal nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 847-854	2.6	36
366	Corrosion behavior of steel coated with thin film TiN/Ti composites. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993 , 11, 451-453	2.9	36
365	Effects of plasma immersion ion implantation of oxygen on mechanical properties and microstructure of Ti6Al4V. <i>Surface and Coatings Technology</i> , 1998 , 103-104, 262-267	4.4	35
364	Charge-selective transport of organic and protein analytes through synthetic nanochannels. <i>Nanotechnology</i> , 2010 , 21, 365701	3.4	34
363	4-(Dimethylamino)pyridine as a powerful auxiliary reagent in the electroless synthesis of gold nanotubes. <i>Langmuir</i> , 2011 , 27, 430-5	4	33
362	Investigation of size effects in the electrical resistivity of single electrochemically fabricated gold nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 3173-3178	3	33
361	An apparatus for sputter coating the inner walls of tubes. <i>Review of Scientific Instruments</i> , 1996 , 67, 318-321	3.2	33
360	Electroless synthesis of platinum and platinum-ruthenium nanotubes and their application in methanol oxidation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6286		32
359	Preparation and Properties of Ag-Containing Diamond-Like Carbon Films by Magnetron Plasma Source Ion Implantation. <i>Advances in Materials Science and Engineering</i> , 2012 , 2012, 1-5	1.5	32
358	Free-Standing Networks of Core-Shell Metal and Metal Oxide Nanotubes for Glucose Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 771-781	9.5	31
357	Thermal stability of electrodeposited platinum nanowires and morphological transformations at elevated temperatures. <i>Nanotechnology</i> , 2012 , 23, 475710	3.4	31
356	Label-free histamine detection with nanofluidic diodes through metal ion displacement mechanism. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 150, 201-208	6	30
355	Stereoselective detection of amino acids with protein-modified single asymmetric nanopores. <i>Electrochimica Acta</i> , 2016 , 215, 231-237	6.7	30

354	Long-range superconducting proximity effect in polycrystalline Co nanowires. <i>Applied Physics Letters</i> , 2014 , 104, 052603	3.4	30
353	Ion beam assisted deposition for metal finishing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989 , 37-38, 682-687	1.2	30
352	Saccharide/glycoprotein recognition inside synthetic ion channels modified with boronic acid. <i>Sensors and Actuators B: Chemical</i> , 2012 , 162, 216-222	8.5	29
351	Sr/Y separation by supported liquid membranes based on nuclear track micro filters. <i>Radiation Measurements</i> , 2003 , 36, 761-766	1.5	28
350	Energy conversion from external fluctuating signals based on asymmetric nanopores. <i>Nano Energy</i> , 2015 , 16, 375-382	17.1	27
349	Nanopore charge inversion and current-voltage curves in mixtures of asymmetric electrolytes. <i>Journal of Membrane Science</i> , 2018 , 563, 633-642	9.6	27
348	Temperature dependent properties of silicon containing diamondlike carbon films prepared by plasma source ion implantation. <i>Journal of Applied Physics</i> , 2010 , 107, 083307	2.5	27
347	Deposition of silicon-containing diamond-like carbon films by plasma-enhanced chemical vapour deposition. <i>Surface and Coatings Technology</i> , 2009 , 203, 2747-2750	4.4	27
346	Highly Efficient Permeation and Separation of Gases with Metal-Organic Frameworks Confined in Polymeric Nanochannels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49992-50001	9.5	27
345	Fabrication of porous rhodium nanotube catalysts by electroless plating. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12784		26
344	Diameter dependent failure current density of gold nanowires. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 185403	3	26
343	Cubic nitrides of the sixth group of transition metals formed by nitrogen ion irradiation during metal condensation. <i>Surface and Coatings Technology</i> , 1996 , 84, 425-428	4.4	26
342	Ion bombardment effects in conducting polymers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994 , 91, 473-477	1.2	26
341	ALLIGATOR [®] an apparatus for ion beam assisted deposition with a broad-beam ion source. <i>Review of Scientific Instruments</i> , 1992 , 63, 2411-2413	1.7	26
340	Template-based synthesis of metallic Pd nanotubes by electroless deposition and their use as catalysts in the 4-nitrophenol model reaction. <i>Green Chemistry</i> , 2016 , 18, 558-564	10	25
339	Characteristic features of an apparatus for plasma immersion ion implantation and physical vapour deposition. <i>Surface and Coatings Technology</i> , 1997 , 93, 175-180	4.4	25
338	Semiconductor processing by plasma immersion ion implantation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 253, 258-268	5.3	25
337	Structural investigations of chromium nitride films formed by ion beam-assisted deposition. <i>Surface and Coatings Technology</i> , 1998 , 108-109, 303-307	4.4	25

336	Logic Functions with Stimuli-Responsive Single Nanopores. <i>ChemElectroChem</i> , 2014 , 1, 698-705	4.3	24
335	DLC coating of interior surfaces of steel tubes by low energy plasma source ion implantation and deposition. <i>Applied Surface Science</i> , 2014 , 310, 262-265	6.7	24
334	Information processing with a single multifunctional nanofluidic diode. <i>Applied Physics Letters</i> , 2012 , 101, 133108	3.4	24
333	The influence of boron ion implantation on hydrogen blister formation in n-type silicon. <i>Journal of Applied Physics</i> , 1999 , 86, 4176-4183	2.5	24
332	Cesium-Induced Ionic Conduction through a Single Nanofluidic Pore Modified with Calixcrown Moieties. <i>Langmuir</i> , 2017 , 33, 9170-9177	4	23
331	Chemical character of BC _x N _y layers grown by CVD with trimethylamine borane. <i>X-Ray Spectrometry</i> , 2009 , 38, 68-73	0.9	23
330	Correlations between process parameters and film properties of diamond-like carbon films formed by hydrocarbon plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2009 , 203, 2721-2726	4.4	23
329	Characterization of Ti-6Al-4V modified by nitrogen plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 1997 , 93, 305-308	4.4	23
328	Gross alpha determination in drinking water using a highly specific resin and LSC. <i>Applied Radiation and Isotopes</i> , 2004 , 61, 339-44	1.7	23
327	The influence of ion irradiation during film growth on the chemical stability of film/substrate systems. <i>Surface and Coatings Technology</i> , 1996 , 80, 35-48	4.4	23
326	Stress and adhesion of chromium and boron films deposited under ion bombardment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991 , 59-60, 254-258	1.2	23
325	Electrodeposition and electroless plating of hierarchical metal superstructures composed of 1D nano- and microscale building blocks. <i>Electrochimica Acta</i> , 2016 , 202, 47-54	6.7	23
324	NiCo nanotubes plated on Pd seeds as a designed magnetically collectable catalyst with high noble metal utilisation. <i>RSC Advances</i> , 2016 , 6, 70033-70039	3.7	22
323	Polymer activation by reducing agent absorption as a flexible tool for the creation of metal films and nanostructures by electroless plating. <i>Surface and Coatings Technology</i> , 2014 , 242, 100-108	4.4	22
322	Silicatein conjugation inside nanoconfined geometries through immobilized NTA-Ni(II) chelates. <i>Chemical Communications</i> , 2013 , 49, 2210-2	5.8	22
321	Transport properties of track-etched membranes having variable effective pore-lengths. <i>Nanotechnology</i> , 2015 , 26, 485502	3.4	22
320	Plasma immersion ion implantation for metallurgical and semiconductor research and development. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 120, 270-281	1.2	22
319	Microporosity and adhesion of ion bombarded thin silicon surface films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1988 , 32, 104-110	1.2	22

318	Preparation of Ag-containing diamond-like carbon films on the interior surface of tubes by a combined method of plasma source ion implantation and DC sputtering. <i>Applied Surface Science</i> , 2014 , 310, 257-261	6.7	21
317	Nernst-Planck model of photo-triggered, pH-tunable ionic transport through nanopores functionalized with "caged" lysine chains. <i>Journal of Chemical Physics</i> , 2013 , 138, 034709	3.9	21
316	Electroless decoration of macroscale foam with nickel nano-spikes: A scalable route toward efficient catalyst electrodes. <i>Electrochemistry Communications</i> , 2016 , 65, 39-43	5.1	20
315	On-line and post irradiation analysis of swift heavy ion induced modification of PMMA (polymethyl-methacrylate). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 326, 135-139	1.2	20
314	Template-Free Electroless Plating of Gold Nanowires: Direct Surface Functionalization with Shape-Selective Nanostructures for Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31142-31152	9.5	20
313	Heteroepitaxial growth of 3C-SiC on (100) silicon by C60 and Si molecular beam epitaxy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 289, 255-264	5.3	20
312	An apparatus for in-situ or sequential plasma immersion ion beam treatment in combination with r.f. sputter deposition or triode d.c. sputter deposition. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 343-346	4.4	20
311	Ion-beam sputter coating of tantalum tube inner walls for protection against hydrogen embrittlement. <i>Surface and Coatings Technology</i> , 1996 , 84, 434-438	4.4	20
310	A multipurpose implanter with various target chambers for basic studies on the influence of ion bombardment on material properties. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 68, 402-407	1.2	20
309	Nondestructive and nonpreparative chemical nanometrology of internal material interfaces at tunable high information depths. <i>Analytical Chemistry</i> , 2013 , 85, 193-200	7.8	19
308	Tuning nanopore surface polarity and rectification properties through enzymatic hydrolysis inside nanoconfined geometries. <i>Chemical Communications</i> , 2013 , 49, 8770-2	5.8	19
307	Segmented All-Platinum Nanowires with Controlled Morphology through Manipulation of the Local Electrolyte Distribution in Fluidic Nanochannels during Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22502-22507	3.8	19
306	Scintillation Screen Investigations for High-Current Ion Beams. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 1414-1419	1.7	19
305	Effect of etching conditions on pore shape in etched ion-track polycarbonate membranes. <i>Radiation Measurements</i> , 2009 , 44, 779-782	1.5	19
304	Lateral implantation dose measurements of plasma immersion ion implanted non-planar samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 112, 255-258	1.2	19
303	Protection against hydrogen embrittlement by ion beam mixing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989 , 39, 552-555	1.2	19
302	Metal nanotubes and nanowires with rhombohedral cross-section electrolessly deposited in mica templates. <i>Langmuir</i> , 2014 , 30, 10878-85	4	18
301	Net currents obtained from zero-average potentials in single amphoteric nanopores. <i>Electrochemistry Communications</i> , 2013 , 31, 137-140	5.1	18

300	First results studying the transmutation of ^{129}I , ^{237}Np , ^{238}Pu , and ^{239}Pu in the irradiation of an extended natU/Pb-assembly with 2.52 GeV deuterons. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009 , 279, 567-584	1.5	18
299	Depletion solid-phase microextraction for the evaluation of fiber-sample partition coefficients of pesticides. <i>Journal of Chromatography A</i> , 2006 , 1102, 51-9	4.5	18
298	Analysis of polynitrophenols and hexyl by liquid chromatography-mass spectrometry using atmospheric pressure ionisation methods and a volatile ion-pairing reagent. <i>Journal of Chromatography A</i> , 2002 , 943, 47-54	4.5	18
297	Control of preferentially oriented crystal growth of titanium nitride effects of nitrogen adsorption and ion-beam irradiation in dynamic mixing process. <i>Applied Surface Science</i> , 1992 , 60-61, 760-764	6.7	18
296	Dielectric constant, AC conductivity and impedance spectroscopy of zinc-containing diamond-like carbon film UV photodetector. <i>Journal of Alloys and Compounds</i> , 2018 , 758, 194-205	5.7	18
295	Zinc ion driven ionic conduction through single asymmetric nanochannels functionalized with nanocomposites. <i>Electrochimica Acta</i> , 2020 , 337, 135810	6.7	17
294	Green plating of high aspect ratio gold nanotubes and their morphology-dependent performance in enzyme-free peroxide sensing. <i>RSC Advances</i> , 2014 , 4, 24504	3.7	17
293	Hybrid Circuits with Nanofluidic Diodes and Load Capacitors. <i>Physical Review Applied</i> , 2017 , 7,	4.3	17
292	Polymer-Derived SiOC Nanotubes and Nanorods via a Template Approach. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 3496-3506	2.3	17
291	Electrochemical investigation and characterization of thin-film porosity. <i>Thin Solid Films</i> , 2007 , 515, 4559-4564	2.5	17
290	Ion beam-assisted deposition of nitrides of the 4th group of transition metals. <i>Surface and Coatings Technology</i> , 2000 , 128-129, 81-84	4.4	17
289	Effect of ion and atom masses on the crystallographic orientation of nitride films prepared by ion-beam-assisted deposition. <i>Surface and Coatings Technology</i> , 1994 , 66, 313-317	4.4	17
288	Silicon carbonitride nanolayers [Synthesis and chemical characterization. <i>Thin Solid Films</i> , 2012 , 520, 5906-5913	2.2	16
287	Outgassing and degradation of polyimide induced by swift heavy ion irradiation at cryogenic temperature. <i>Journal of Applied Physics</i> , 2010 , 108, 024901	2.5	16
286	Chemical characterization of SiC _x N _y nanolayers by FTIR-and Raman spectroscopy, XPS and TXRF-NEXAFS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 603, 174-177	1.2	16
285	Homogeneity measurements of plasma immersion ion-implanted complex-shaped samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 127-128, 869-872	1.2	16
284	Treatment uniformity of plasma immersion ion implantation studied with three-dimensional model systems. <i>Surface and Coatings Technology</i> , 1998 , 103-104, 218-221	4.4	16
283	An advanced apparatus for ion beam assisted sputter coating of the inner walls of tubes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 148, 912-916	1.2	16

282	Long-term thermal stability of Si-containing diamond-like carbon films prepared by plasma source ion implantation. <i>Surface and Coatings Technology</i> , 2016 , 305, 93-98	4.4	16
281	Nano- and microstructured silver films synthesised by halide-assisted electroless plating. <i>New Journal of Chemistry</i> , 2015 , 39, 6803-6812	3.6	15
280	Current rectification by nanoparticle blocking in single cylindrical nanopores. <i>Nanoscale</i> , 2014 , 6, 10740-5	7	15
279	A redox-sensitive nanofluidic diode based on nicotinamide-modified asymmetric nanopores. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 895-902	8.5	15
278	Charging a capacitor from an external fluctuating potential using a single conical nanopore. <i>Scientific Reports</i> , 2015 , 5, 9501	4.9	15
277	Self-Supporting Metal Nanotube Networks Obtained by Highly Conformal Electroless Plating. <i>ChemPlusChem</i> , 2015 , 80, 1448-1456	2.8	15
276	Electroless plating of ultrathin palladium films: self-initiated deposition and application in microreactor fabrication. <i>Materials Research Express</i> , 2015 , 2, 105010	1.7	15
275	Influence of different heat treatment programs on properties of sol-gel synthesized (Na _{0.5} K _{0.5})NbO ₃ (KNN) thin films. <i>Bulletin of Materials Science</i> , 2012 , 35, 745-750	1.7	15
274	Analytical characterization of BC(x)N(y) films generated by LPCVD with triethylamine borane. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1077-84	4.4	15
273	Formation of thin carbide films of titanium and tantalum by methane plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 257, 746-749	1.2	15
272	The influence of platinum implantation on the hydrogen embrittlement of tantalum. <i>Materials Science and Engineering</i> , 1987 , 90, 237-241		15
271	Electroless synthesis of cellulose-metal aerogel composites. <i>Applied Physics Letters</i> , 2016 , 108, 213108	3.4	15
270	Membrane potential of single asymmetric nanopores: Divalent cations and salt mixtures. <i>Journal of Membrane Science</i> , 2019 , 573, 579-587	9.6	15
269	Modification of diamond-like carbon films by nitrogen incorporation via plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 357-361	1.2	14
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133	Investigation of plasma immersion ion implanted niobium oxide and titanium nitride films by nanohardness measurement. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 120, 282-285	1.2	5
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