Wolfgang Ensinger

List of Publications by Year
in descending order

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436 papers	10,193 citations	47006 47 h-index	62596 80 g-index
445 all docs	445 docs citations	445 times ranked	7378 citing authors

#	Article	IF	Citations
1	Single Conical Nanopores Displaying pH-Tunable Rectifying Characteristics. Manipulating Ionic Transport With Zwitterionic Polymer Brushes. Journal of the American Chemical Society, 2009, 131, 2070-2071.	13.7	341
2	A pH-Tunable Nanofluidic Diode with a Broad Range of Rectifying Properties. ACS Nano, 2009, 3, 603-608.	14.6	309
3	Synthetic Proton-Gated Ion Channels via Single Solid-State Nanochannels Modified with Responsive Polymer Brushes. Nano Letters, 2009, 9, 2788-2793.	9.1	299
4	Biosensing and Supramolecular Bioconjugation in Single Conical Polymer Nanochannels. Facile Incorporation of Biorecognition Elements into Nanoconfined Geometries. Journal of the American Chemical Society, 2008, 130, 16351-16357.	13.7	270
5	Layer-by-Layer Assembly of Polyelectrolytes into Ionic Current Rectifying Solid-State Nanopores: Insights from Theory and Experiment. Journal of the American Chemical Society, 2010, 132, 8338-8348.	13.7	265
6	Ionic Transport Through Single Solidâ€State Nanopores Controlled with Thermally Nanoactuated Macromolecular Gates. Small, 2009, 5, 1287-1291.	10.0	244
7	Morphological evolution of Au nanowires controlled by Rayleigh instability. Nanotechnology, 2006, 17, 5954-5959.	2.6	240
8	Low energy ion assist during deposition â€" an effective tool for controlling thin film microstructure. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 796-808.	1.4	168
9	Highly-Ordered Supportless Three-Dimensional Nanowire Networks with Tunable Complexity and Interwire Connectivity for Device Integration. Nano Letters, 2011, 11, 2304-2310.	9.1	168
10	Hydrogen Peroxide Sensing with Horseradish Peroxidase-Modified Polymer Single Conical Nanochannels. Analytical Chemistry, 2011, 83, 1673-1680.	6.5	168
11	Sequence-Specific Recognition of DNA Oligomer Using Peptide Nucleic Acid (PNA)-Modified Synthetic Ion Channels: PNA/DNA Hybridization in Nanoconfined Environment. ACS Nano, 2010, 4, 7267-7274.	14.6	161
12	Single Cigar-Shaped Nanopores Functionalized with Amphoteric Amino Acid Chains: Experimental and Theoretical Characterization. ACS Nano, 2012, 6, 3631-3640.	14.6	132
13	Metal Ion Affinity-based Biomolecular Recognition and Conjugation inside Synthetic Polymer Nanopores Modified with Ironâ€"Terpyridine Complexes. Journal of the American Chemical Society, 2011, 133, 17307-17314.	13.7	120
14	Logic Gates Using Nanofluidic Diodes Based on Conical Nanopores Functionalized with Polyprotic Acid Chains. Langmuir, 2009, 25, 11993-11997.	3.5	116
15	Proton-regulated rectified ionic transport through solid-state conical nanopores modified with phosphate-bearing polymer brushes. Chemical Communications, 2010, 46, 1908-1910.	4.1	111
16	Calcium Binding and Ionic Conduction in Single Conical Nanopores with Polyacid Chains: Model and Experiments. ACS Nano, 2012, 6, 9247-9257.	14.6	106
17	Modifying the surface charge of single track-etched conical nanopores in polyimide. Nanotechnology, 2008, 19, 085713.	2.6	102
18	Multilayer Al2O3/TiO2 Atomic Layer Deposition coatings for the corrosion protection of stainless steel. Thin Solid Films, 2012, 522, 283-288.	1.8	96

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19	Synthesis of gold nanowires with controlled crystallographic characteristics. Applied Physics A: Materials Science and Processing, 2006, 84, 403-407.	2.3	95
20	Biosensing with Functionalized Single Asymmetric Polymer Nanochannels. Macromolecular Bioscience, 2010, 10, 28-32.	4.1	85
21	Electroless synthesis of nanostructured nickel and nickelâ€“boron tubes and their performance as unsupported ethanol electrooxidation catalysts. Journal of Power Sources, 2013, 222, 243-252.	7.8	82
22	Biomolecular conjugation inside synthetic polymer nanopores via glycoproteinâ€“lectin interactions. Nanoscale, 2011, 3, 1894.	5.6	78
23	Bioconjugation-induced ionic current rectification in aptamer-modified single cylindrical nanopores. Chemical Communications, 2015, 51, 3454-3457.	4.1	78
24	Ion-beam-assisted coatings for corrosion protection studies. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 116, 1-14.	5.6	76
25	Influence of crystallinity on the Rayleigh instability of gold nanowires. Journal Physics D: Applied Physics, 2007, 40, 3767-3770.	2.8	68
26	Growth of thin films with preferential crystallographic orientation by ion bombardment during deposition. Surface and Coatings Technology, 1994, 65, 90-105.	4.8	67
27	Optical Gating of Photosensitive Synthetic Ion Channels. Advanced Functional Materials, 2012, 22, 390-396.	14.9	65
28	Preparation and antibacterial properties of Ag-containing diamond-like carbon films prepared by a combination of magnetron sputtering and plasma source ion implantation. Vacuum, 2013, 89, 179-184.	3.5	64
29	Analytical investigations concerning the wear behaviour of cutting tools used for the machining of compacted graphite iron and grey cast iron. International Journal of Refractory Metals and Hard Materials, 2008, 26, 197-206.	3.8	62
30	On the mechanism of crystal growth orientation of ion beam assisted deposited thin films. Nuclear Instruments & Methods in Physics Research B, 1995, 106, 142-146.	1.4	60
31	5217-5233.	1.3	59
32	A facile route for the preparation of azide-terminated polymers. â€œClickingâ€•polyelectrolyte brushes on planar surfaces and nanochannels. Polymer Chemistry, 2010, 1, 183-192.	3.9	59
33	Carbohydrate-Mediated Biomolecular Recognition and Gating of Synthetic Ion Channels. Journal of Physical Chemistry C, 2013, 117, 18234-18242.	3.1	59
34	Ion bombardment during thin film deposition and its influence on mechanical and chemical surface properties. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 173-181.	1.4	58
35	Formation of titanium oxide films on titanium and Ti6Al4V by O2-plasma immersion ion implantation. Surface and Coatings Technology, 2000, 132, 111-116.	4.8	56
36	Lithium Ion Recognition with Nanofluidic Diodes through Hostâ€“Guest Complexation in Confined Geometries. Analytical Chemistry, 2018, 90, 6820-6826.	6.5	56

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37	Plasma and ion-beam-assisted deposition of multilayers for tribological and corrosion protection. Surface and Coatings Technology, 1993, 60, 561-565.	4.8	55
38	Fabrication of Single Cylindrical Au-Coated Nanopores with Non-Homogeneous Fixed Charge Distribution Exhibiting High Current Rectifications. ACS Applied Materials & Interfaces, 2014, 6, 12486-12494.	8.0	55
39	Ion bombardment effects during deposition of nitride and metal films. Surface and Coatings Technology, 1998, 99, 1-13.	4.8	54
40	Mixed Phase Anatase/rutile Titanium Dioxide Nanotubes for Enhanced Photocatalytic Degradation of Methylene-blue. Nano-Micro Letters, 2011, 3, 236-241.	27.0	53
41	Thermally controlled permeation of ionic molecules through synthetic nanopores functionalized with amine-terminated polymer brushes. Nanotechnology, 2012, 23, 225502.	2.6	53
42	In Situ Derivatization/Solid-Phase Microextraction:â€‰ Determination of Polar Aromatic Amines. Analytical Chemistry, 2004, 76, 1028-1038.	6.5	52
43	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. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 140, 625-630.	5.6	51
44	Fabrication and functionalization of single asymmetric nanochannels for electrostatic/hydrophobic association of protein molecules. Nanotechnology, 2008, 19, 485711.	2.6	51
45	Ligand-optimized electroless synthesis of silver nanotubes and their activity in the reduction of 4-nitrophenol. Nanotechnology, 2011, 22, 415602.	2.6	51
46	Lowâ€temperature formation of metastable cubic tantalum nitride by metal condensation under ion irradiation. Journal of Applied Physics, 1995, 77, 6630-6635.	2.5	49
47	Combined in situ infrared and mass spectrometric analysis of high-energy heavy ion induced degradation of polyvinyl polymers. Polymer Chemistry, 2014, 5, 1001-1012.	3.9	49
48	Labelâ€Free Pyrophosphate Recognition with Functionalized Asymmetric Nanopores. Small, 2016, 12, 2014-2021.	10.0	49
49	Highly Efficient Permeation and Separation of Gases with Metalâ€“Organic Frameworks Confined in Polymeric Nanochannels. ACS Applied Materials & Interfaces, 2020, 12, 49992-50001.	8.0	49
50	Degradation of polyimide under irradiation with swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 456-460.	1.4	47
51	Ionic Transport through Chemically Functionalized Hydrogen Peroxide-Sensitive Asymmetric Nanopores. ACS Applied Materials & Interfaces, 2015, 7, 19541-19545.	8.0	47
52	Microstructural investigations on titanium nitride films formed by medium energy ion beam assisted deposition. Nuclear Instruments & Methods in Physics Research B, 1993, 80-81, 1409-1414.	1.4	45
53	Chemical and mechanical characterization of TiO2/Al2O3 atomic layer depositions on AISI 316 L stainless steel. Surface and Coatings Technology, 2012, 211, 84-88.	4.8	45
54	Are coatings produced by ion-beam-assisted deposition superior? A comparison of chemical and mechanical properties of steel coated using different deposition techniques. Surface and Coatings Technology, 1992, 51, 217-221.	4.8	43

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55	Equipment for ion beam assisted deposition. Nuclear Instruments & Methods in Physics Research B, 1987, 21, 570-573.	1.4	42
56	Surface modification and corrosion properties of implanted and DLC coated stainless steel by plasma based ion implantation and deposition. Surface and Coatings Technology, 2014, 256, 23-29.	4.8	42
57	A comparison of IBAD films for wear and corrosion protection with other PVD coatings. Nuclear Instruments & Methods in Physics Research B, 1993, 80-81, 445-454.	1.4	41
58	Free-Standing Networks of Coreâ€“Shell Metal and Metal Oxide Nanotubes for Glucose Sensing. ACS Applied Materials & Interfaces, 2017, 9, 771-781.	8.0	41
59	Modification of mechanical and chemical surface properties of metals by plasma immersion ion implantation. Surface and Coatings Technology, 1998, 100-101, 341-352.	4.8	40
60	ATP-modulated ionic transport through synthetic nanochannels. Chemical Communications, 2010, 46, 6690.	4.1	40
61	Corrosion behavior of steel coated with thin film TiN/Ti composites. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 451-453.	2.1	38
62	Effects of plasma immersion ion implantation of oxygen on mechanical properties and microstructure of Ti6Al4V. Surface and Coatings Technology, 1998, 103-104, 262-267.	4.8	38
63	Saccharide/glycoprotein recognition inside synthetic ion channels modified with boronic acid. Sensors and Actuators B: Chemical, 2012, 162, 216-222.	7.8	38
64	Label-free histamine detection with nanofluidic diodes through metal ion displacement mechanism. Colloids and Surfaces B: Biointerfaces, 2017, 150, 201-208.	5.0	38
65	Investigation of size effects in the electrical resistivity of single electrochemically fabricated gold nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 3173-3178.	2.7	37
66	Multiple activation of ion track etched polycarbonate for the electroless synthesis of metal nanotubes. Applied Physics A: Materials Science and Processing, 2011, 105, 847-854.	2.3	37
67	An apparatus for sputter coating the inner walls of tubes. Review of Scientific Instruments, 1996, 67, 318-321.	1.3	36
68	4-(Dimethylamino)pyridine as a Powerful Auxiliary Reagent in the Electroless Synthesis of Gold Nanotubes. Langmuir, 2011, 27, 430-435.	3.5	36
69	Preparation and Properties of Ag-Containing Diamond-Like Carbon Films by Magnetron Plasma Source Ion Implantation. Advances in Materials Science and Engineering, 2012, 2012, 1-5.	1.8	36
70	Hierarchical pipe cactus-like Ni/NiCo-LDH coreâ€“shell nanotube networks as a self-supported battery-type electrode for supercapacitors with high volumetric energy density. Journal of Materials Chemistry A, 2022, 10, 12473-12488.	10.3	36
71	Electroless synthesis of platinum and platinumâ€“ruthenium nanotubes and their application in methanol oxidation. Journal of Materials Chemistry, 2011, 21, 6286.	6.7	35
72	Thermal stability of electrodeposited platinum nanowires and morphological transformations at elevated temperatures. Nanotechnology, 2012, 23, 475710.	2.6	35

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73	Stereoselective detection of amino acids with protein-modified single asymmetric nanopores. Electrochimica Acta, 2016, 215, 231-237.	5.2	35
74	3D NiCo-Layered double Hydroxide@Ni nanotube networks as integrated free-standing electrodes for nonenzymatic glucose sensing. Journal of Colloid and Interface Science, 2021, 591, 384-395.	9.4	35
75	Charge-selective transport of organic and protein analytes through synthetic nanochannels. Nanotechnology, 2010, 21, 365701.	2.6	34
76	Long-range superconducting proximity effect in polycrystalline Co nanowires. Applied Physics Letters, 2014, 104, .	3.3	34
77	Temperature dependent properties of silicon containing diamondlike carbon films prepared by plasma source ion implantation. Journal of Applied Physics, 2010, 107, .	2.5	33
78	Nanopore charge inversion and current-voltage curves in mixtures of asymmetric electrolytes. Journal of Membrane Science, 2018, 563, 633-642.	8.2	33
79	Deposition of silicon-containing diamond-like carbon films by plasma-enhanced chemical vapour deposition. Surface and Coatings Technology, 2009, 203, 2747-2750.	4.8	32
80	Transport properties of track-etched membranes having variable effective pore-lengths. Nanotechnology, 2015, 26, 485502.	2.6	32
81	Cesium-Induced Ionic Conduction through a Single Nanofluidic Pore Modified with Calixcrown Moieties. Langmuir, 2017, 33, 9170-9177.	3.5	32
82	A simple and effective method for the accurate extraction of kinetic parameters using differential Tafel plots. Scientific Reports, 2021, 11, 8974.	3.3	32
83	Synergetic effect of adsorption-photocatalysis by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0014.svg"><mml:mrow><mml:mi mathvariant="normal">GO</mml:mi><mml:mo linebreak="badbreak">â^</mml:mo><mml:mi mathvariant="normal">Ce</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mspace width="1em"/></mml:mrow></mml:math>nanocomposites for photodegradation of doxorubicin.	6.7	32
84	Ion beam assisted deposition for metal finishing. Nuclear Instruments & Methods in Physics Research B, 1989, 37-38, 682-687.	1.4	31
85	Energy conversion from external fluctuating signals based on asymmetric nanopores. Nano Energy, 2015, 16, 375-382.	16.0	30
86	Electrodeposition and electroless plating of hierarchical metal superstructures composed of 1D nano- and microscale building blocks. Electrochimica Acta, 2016, 202, 47-54.	5.2	30
87	Ionic circuitry with nanofluidic diodes. Soft Matter, 2019, 15, 9682-9689.	2.7	30
88	Characteristic features of an apparatus for plasma immersion ion implantation and physical vapour deposition. Surface and Coatings Technology, 1997, 93, 175-180.	4.8	29
89	Sr/Y separation by supported liquid membranes based on nuclear track micro filters. Radiation Measurements, 2003, 36, 761-766.	1.4	29
90	Template-Free Electroless Plating of Gold Nanowires: Direct Surface Functionalization with Shape-Selective Nanostructures for Electrochemical Applications. ACS Applied Materials & Interfaces, 2017, 9, 31142-31152.	8.0	29

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91	Characterization of Ti-6A1-4V modified by nitrogen plasma immersion ion implantation. Surface and Coatings Technology, 1997, 93, 305-308.	4.8	28
92	Semiconductor processing by plasma immersion ion implantation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 253, 258-268.	5.6	28
93	Diameter dependent failure current density of gold nanowires. Journal Physics D: Applied Physics, 2009, 42, 185403.	2.8	28
94	Template-based synthesis of metallic Pd nanotubes by electroless deposition and their use as catalysts in the 4-nitrophenol model reaction. Green Chemistry, 2016, 18, 558-564.	9.0	28
95	Dielectric constant, AC conductivity and impedance spectroscopy of zinc-containing diamond-like carbon film UV photodetector. Journal of Alloys and Compounds, 2018, 758, 194-205.	5.5	28
96	Ion bombardment effects in conducting polymers. Nuclear Instruments & Methods in Physics Research B, 1994, 91, 473-477.	1.4	27
97	Cubic nitrides of the sixth group of transition metals formed by nitrogen ion irradiation during metal condensation. Surface and Coatings Technology, 1996, 84, 425-428.	4.8	27
98	The influence of boron ion implantation on hydrogen blister formation in n-type silicon. Journal of Applied Physics, 1999, 86, 4176-4183.	2.5	27
99	Correlations between process parameters and film properties of diamond-like carbon films formed by hydrocarbon plasma immersion ion implantation. Surface and Coatings Technology, 2009, 203, 2721-2726.	4.8	27
100	On-line and post irradiation analysis of swift heavy ion induced modification of PMMA (polymethyl-methacrylate). Nuclear Instruments & Methods in Physics Research B, 2014, 326, 135-139.	1.4	27
101	ALLIGATORâ˜An apparatus for ion beam assisted deposition with a broadâ€beam ion source. Review of Scientific Instruments, 1992, 63, 2411-2413.	1.3	26
102	Structural investigations of chromium nitride films formed by ion beam-assisted deposition. Surface and Coatings Technology, 1998, 108-109, 303-307.	4.8	26
103	Fabrication of porous rhodium nanotube catalysts by electroless plating. Journal of Materials Chemistry, 2012, 22, 12784.	6.7	26
104	Polymer activation by reducing agent absorption as a flexible tool for the creation of metal films and nanostructures by electroless plating. Surface and Coatings Technology, 2014, 242, 100-108.	4.8	26
105	Electroless decoration of macroscale foam with nickel nano-spikes: A scalable route toward efficient catalyst electrodes. Electrochemistry Communications, 2016, 65, 39-43.	4.7	26
106	The influence of ion irradiation during film growth on the chemical stability of film/substrate systems. Surface and Coatings Technology, 1996, 80, 35-48.	4.8	25
107	Information processing with a single multifunctional nanofluidic diode. Applied Physics Letters, 2012, 101, .	3.3	25
108	DLC coating of interior surfaces of steel tubes by low energy plasma source ion implantation and deposition. Applied Surface Science, 2014, 310, 262-265.	6.1	25

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109	Plasma immersion ion implantation for metallurgical and semiconductor research and development. Nuclear Instruments & Methods in Physics Research B, 1996, 120, 270-281.	1.4	24
110	Chemical character of BC_xN_y layers grown by CVD with trimethylamine borane. X-Ray Spectrometry, 2009, 38, 68-73.	1.4	24
111	Logic Functions with Stimuliâ€Responsive Single Nanopores. ChemElectroChem, 2014, 1, 698-705.	3.4	24
112	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. Applied Surface Science, 2014, 310, 257-261.	6.1	24
113	NiCo nanotubes plated on Pd seeds as a designed magnetically recollectable catalyst with high noble metal utilisation. RSC Advances, 2016, 6, 70033-70039.	3.6	24
114	Hybrid Circuits with Nanofluidic Diodes and Load Capacitors. Physical Review Applied, 2017, 7, .	3.8	24
115	Stress and adhesion of chromium and boron films deposited under ion bombardment. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 254-258.	1.4	23
116	Heteroepitaxial growth of 3C-SiC on (100) silicon by C60 and Si molecular beam epitaxy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 289, 255-264.	5.6	23
117	Gross alpha determination in drinking water using a highly specific resin and LSC. Applied Radiation and Isotopes, 2004, 61, 339-344.	1.5	23
118	Metal Nanotubes and Nanowires with Rhombohedral Cross-Section Electrolessly Deposited in Mica Templates. Langmuir, 2014, 30, 10878-10885.	3.5	23
119	Microporosity and adhesion of ion bombarded thin silicon surface films. Nuclear Instruments & Methods in Physics Research B, 1988, 32, 104-110.	1.4	22
120	Ion-beam sputter coating of tantalum tube inner walls for protection against hydrogen embrittlement. Surface and Coatings Technology, 1996, 84, 434-438.	4.8	22
121	Analysis of polynitrophenols and hexyl by liquid chromatographyâ€“mass spectrometry using atmospheric pressure ionisation methods and a volatile ion-pairing reagent. Journal of Chromatography A, 2002, 943, 47-54.	3.7	22
122	Depletion solid-phase microextraction for the evaluation of fiber-sample partition coefficients of pesticides. Journal of Chromatography A, 2006, 1102, 51-59.	3.7	22
123	Effect of etching conditions on pore shape in etched ion-track polycarbonate membranes. Radiation Measurements, 2009, 44, 779-782.	1.4	22
124	Silicatein conjugation inside nanoconfined geometries through immobilized NTAâ€“Ni(ii) chelates. Chemical Communications, 2013, 49, 2210.	4.1	22
125	Zinc ion driven ionic conduction through single asymmetric nanochannels functionalized with nanocomposites. Electrochimica Acta, 2020, 337, 135810.	5.2	22
126	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. Surface and Coatings Technology, 1999, 120-121, 343-346.	4.8	21

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127	Nernst-Planck model of photo-triggered, pHâ€“tunable ionic transport through nanopores functionalized with â€œcagedâ€•lysine chains. Journal of Chemical Physics, 2013, 138, 034709.	3.0	21
128	Green plating of high aspect ratio gold nanotubes and their morphology-dependent performance in enzyme-free peroxide sensing. RSC Advances, 2014, 4, 24504.	3.6	21
129	A multipurpose implanter with various target chambers for basic studies on the influence of ion bombardment on material properties. Nuclear Instruments & Methods in Physics Research B, 1992, 68, 402-407.	1.4	20
130	Lateral implantation dose measurements of plasma immersion ion implanted non-planar samples. Nuclear Instruments & Methods in Physics Research B, 1996, 112, 255-258.	1.4	20
131	First results studying the transmutation of 129I, 237Np, 238Pu, and 239Pu in the irradiation of an extended natU/Pb-assembly with 2.52 GeV deuterons. Journal of Radioanalytical and Nuclear Chemistry, 2009, 279, 567-584.	1.5	20
132	Segmented All-Platinum Nanowires with Controlled Morphology through Manipulation of the Local Electrolyte Distribution in Fluidic Nanochannels during Electrodeposition. Journal of Physical Chemistry C, 2010, 114, 22502-22507.	3.1	20
133	Scintillation Screen Investigations for High-Current Ion Beams. IEEE Transactions on Nuclear Science, 2010, 57, 1414-1419.	2.0	20
134	Nondestructive and Nonpreparative Chemical Nanometrology of Internal Material Interfaces at Tunable High Information Depths. Analytical Chemistry, 2013, 85, 193-200.	6.5	20
135	Corrosion protection of pure aluminium and aluminium alloy (AA7075) in salt solution with silaneâ€based solâ€“gel coatings. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 276-283.	1.5	20
136	Proximity-induced superconductivity in crystalline Cu and Co nanowires and nanogranular Co structures. Journal of Applied Physics, 2014, 116, .	2.5	20
137	Membrane potential of single asymmetric nanopores: Divalent cations and salt mixtures. Journal of Membrane Science, 2019, 573, 579-587.	8.2	20
138	Protection against hydrogen embrittlement by ion beam mixing. Nuclear Instruments & Methods in Physics Research B, 1989, 39, 552-555.	1.4	19
139	Control of preferentially oriented crystal growth of titanium nitride effects of nitrogen adsorption and ion-beam irradiation in dynamic mixing process. Applied Surface Science, 1992, 60-61, 760-764.	6.1	19
140	Outgassing and degradation of polyimide induced by swift heavy ion irradiation at cryogenic temperature. Journal of Applied Physics, 2010, 108, .	2.5	19
141	Net currents obtained from zero-average potentials in single amphoteric nanopores. Electrochemistry Communications, 2013, 31, 137-140.	4.7	19
142	Tuning nanopore surface polarity and rectification properties through enzymatic hydrolysis inside nanoconfined geometries. Chemical Communications, 2013, 49, 8770.	4.1	19
143	Experimental simulation of radiation damage of polymers in space applications by cosmic-ray-type high energy heavy ions and the resulting changes in optical properties. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 230-234.	1.4	19
144	Long-term thermal stability of Si-containing diamond-like carbon films prepared by plasma source ion implantation. Surface and Coatings Technology, 2016, 305, 93-98.	4.8	19

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145	Homogeneity measurements of plasma immersion ion-implanted complex-shaped samples. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 869-872.	1.4	18
146	Treatment uniformity of plasma immersion ion implantation studied with three-dimensional model systems. Surface and Coatings Technology, 1998, 103-104, 218-221.	4.8	18
147	Ion beam-assisted deposition of nitrides of the 4th group of transition metals. Surface and Coatings Technology, 2000, 128-129, 81-84.	4.8	18
148	Polymerâ€Derived SiOC Nanotubes and Nanorods via a Template Approach. European Journal of Inorganic Chemistry, 2009, 2009, 3496-3506.	2.0	18
149	Analytical characterization of BCxNy films generated by LPCVD with triethylamine borane. Analytical and Bioanalytical Chemistry, 2010, 398, 1077-1084.	3.7	18
150	Selfâ€Supporting Metal Nanotube Networks Obtained by Highly Conformal Electroless Plating. ChemPlusChem, 2015, 80, 1448-1456.	2.8	18
151	Fluoride-induced modulation of ionic transport in asymmetric nanopores functionalized with â€œcagedâ€•fluorescein moieties. Nanoscale, 2016, 8, 8583-8590.	5.6	18
152	Ionic transport characteristics of negatively and positively charged conical nanopores in 1:1, 2:1, 3:1, 2:2, 1:2, and 1:3 electrolytes. Journal of Colloid and Interface Science, 2019, 553, 639-646.	9.4	18
153	Ultrasensitive and Selective Copper(II) Detection: Introducing a Bioinspired and Robust Sensor. Chemistry - A European Journal, 2020, 26, 8511-8517.	3.3	18
154	Effect of ion and atom masses on the crystallographic orientation of nitride films prepared by ion-beam-assisted deposition. Surface and Coatings Technology, 1994, 66, 313-317.	4.8	17
155	Surface treatment of aluminum oxide and tungsten carbide powders by ion beam sputter deposition. Surface and Coatings Technology, 2003, 163-164, 281-285.	4.8	17
156	Electrochemical investigation and characterization of thin-film porosity. Thin Solid Films, 2007, 515, 4559-4564.	1.8	17
157	Formation of thin carbide films of titanium and tantalum by methane plasma immersion ion implantation. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 746-749.	1.4	17
158	Chemical characterization of SiCxNy nanolayers by FTIR-and Raman spectroscopy, XPS and TXRF-NEXAFS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 174-177.	1.6	17
159	Silicon carbonitride nanolayers â€” Synthesis and chemical characterization. Thin Solid Films, 2012, 520, 5906-5913.	1.8	17
160	Current rectification by nanoparticle blocking in single cylindrical nanopores. Nanoscale, 2014, 6, 10740-10745.	5.6	17
161	Potassium-induced ionic conduction through a single nanofluidic pore modified with acyclic polyether derivative. Analytica Chimica Acta, 2018, 1039, 132-139.	5.4	17
162	Fabrication of soft-etched nanoporous polyimide membranes for ionic conduction and discrimination. Journal of Membrane Science, 2021, 617, 118633.	8.2	17

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163	The influence of platinum implantation on the hydrogen embrittlement of tantalum. Materials Science and Engineering, 1987, 90, 237-241.	0.1	16
164	An advanced apparatus for ion beam assisted sputter coating of the inner walls of tubes. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 912-916.	1.4	16
165	Low cost chemical sensor device for supersensitive pentaerythritol tetranitrate (PETN) explosives detection based on titanium dioxide nanotubes. Sensors and Actuators B: Chemical, 2011, 158, 286-291.	7.8	16
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