

Dirk Mayer

List of Publications by Year in descending order

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Version: 2024-02-01

143
papers

3,661
citations

136950

32
h-index

182427

51
g-index

149
all docs

149
docs citations

149
times ranked

4530
citing authors

#	ARTICLE	IF	CITATIONS
1	Labelfree fully electronic nucleic acid detection system based on a field-effect transistor device. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1723-1731.	10.1	245
2	Mechanically Controllable Break Junctions for Molecular Electronics. <i>Advanced Materials</i> , 2013, 25, 4845-4867.	21.0	192
3	Surface activation of thin silicon oxides by wet cleaning and silanization. <i>Thin Solid Films</i> , 2006, 510, 175-180.	1.8	124
4	Three-Terminal Single-Molecule Junctions Formed by Mechanically Controllable Break Junctions with Side Gating. <i>Nano Letters</i> , 2013, 13, 2809-2813.	9.1	103
5	PEDOT:PSS-Based Bioelectronic Devices for Recording and Modulation of Electrophysiological and Biochemical Cell Signals. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100061.	7.6	92
6	Multi-Level Logic Gate Operation Based on Amplified Aptasensor Performance. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7693-7697.	13.8	85
7	Ultrasensitive antibody-aptamer plasmonic biosensor for malaria biomarker detection in whole blood. <i>Nature Communications</i> , 2020, 11, 6134.	12.8	85
8	Aptamer-based electrochemical biosensor for highly sensitive and selective malaria detection with adjustable dynamic response range and reusability. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 235-243.	7.8	82
9	Micropatterned silicone elastomer substrates for high resolution analysis of cellular force patterns. <i>Review of Scientific Instruments</i> , 2007, 78, 034301.	1.3	80
10	In Situ Infrared Study of 4,4'-Bipyridine Adsorption on Thin Gold Films. <i>Langmuir</i> , 2002, 18, 4331-4341.	3.5	70
11	Field-effect sensors with charged macromolecules: Characterisation by capacitance-voltage, constant-capacitance, impedance spectroscopy and atomic-force microscopy methods. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2100-2107.	10.1	68
12	Biosensing near the neutrality point of graphene. <i>Science Advances</i> , 2017, 3, e1701247.	10.3	68
13	Analyzing the electroactive surface of gold nanopillars by electrochemical methods for electrode miniaturization. <i>Electrochimica Acta</i> , 2008, 53, 6265-6272.	5.2	57
14	Monitoring amyloid- β^2 proteins aggregation based on label-free aptasensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 535-542.	7.8	56
15	An Electrochemically Transduced XOR Logic Gate at the Molecular Level. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2595-2598.	13.8	53
16	Structural transitions in 4,4'-bipyridine adlayers on Au(111)-an electrochemical and in-situ STM-study. <i>Journal of Electroanalytical Chemistry</i> , 2002, 524-525, 20-35.	3.8	51
17	High Performance Flexible Organic Electrochemical Transistors for Monitoring Cardiac Action Potential. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800304.	7.6	50
18	UV nanoimprint lithography with rigid polymer molds. <i>Microelectronic Engineering</i> , 2009, 86, 661-664.	2.4	48

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19	Fully Printed 1/4-Needle Electrode Array from Conductive Polymer Ink for Bioelectronic Applications. ACS Applied Materials & Interfaces, 2019, 11, 32778-32786.	8.0	45
20	Amperometric Aptasensor for Amyloid- β Oligomer Detection by Optimized Stem-Loop Structures with an Adjustable Detection Range. ACS Sensors, 2019, 4, 3042-3050.	7.8	44
21	Gold nanostructures: synthesis, properties, and neurological applications. Chemical Society Reviews, 2022, 51, 2601-2680.	38.1	43
22	Tuning Channel Architecture of Interdigitated Organic Electrochemical Transistors for Recording the Action Potentials of Electrogenic Cells. Advanced Functional Materials, 2019, 29, 1902085.	14.9	42
23	Gating capacitive field-effect sensors by the charge of nanoparticle/molecule hybrids. Nanoscale, 2015, 7, 1023-1031.	5.6	41
24	LSPR-based colorimetric immunosensor for rapid and sensitive 17 β -estradiol detection in tap water. Sensors and Actuators B: Chemical, 2020, 308, 127699.	7.8	41
25	Ultra-thin resin embedding method for scanning electron microscopy of individual cells on high and low aspect ratio 3D nanostructures. Journal of Microscopy, 2016, 263, 78-86.	1.8	38
26	Electrochemical fabrication and characterization of nanocontacts and nm-sized gaps. Applied Physics A: Materials Science and Processing, 2007, 87, 569-575.	2.3	37
27	Amplification of aptamer sensor signals by four orders of magnitude via interdigitated organic electrochemical transistors. Biosensors and Bioelectronics, 2019, 144, 111668.	10.1	37
28	Label-Free Split Aptamer Sensor for Femtomolar Detection of Dopamine by Means of Flexible Organic Electrochemical Transistors. Materials, 2020, 13, 2577.	2.9	37
29	Electrolyte-Gated Graphene Ambipolar Frequency Multipliers for Biochemical Sensing. Nano Letters, 2016, 16, 2295-2300.	9.1	36
30	Metal imaging on surface of micro- and nanoelectronic devices by laser ablation inductively coupled plasma mass spectrometry and possibility to measure at nanometer range. Journal of the American Society for Mass Spectrometry, 2009, 20, 883-890.	2.8	34
31	Gap size dependent transition from direct tunneling to field emission in single molecule junctions. Chemical Communications, 2011, 47, 4760.	4.1	34
32	Electrochemical current rectification—a novel signal amplification strategy for highly sensitive and selective aptamer-based biosensor. Biosensors and Bioelectronics, 2015, 66, 62-68.	10.1	34
33	The Influence of Supporting Ions on the Electrochemical Detection of Individual Silver Nanoparticles: Understanding the Shape and Frequency of Current Transients in Nano-impacts. Chemistry - A European Journal, 2017, 23, 4638-4643.	3.3	33
34	Patterned self-assembly of gold nanoparticles on chemical templates fabricated by soft UV nanoimprint lithography. Nanotechnology, 2011, 22, 295301.	2.6	32
35	Electrochemical dual-aptamer biosensors based on nanostructured multielectrode arrays for the detection of neuronal biomarkers. Nanoscale, 2020, 12, 16501-16513.	5.6	31
36	On Pattern Transfer in Replica Molding. Langmuir, 2008, 24, 6636-6639.	3.5	30

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37	Control of Cell Adhesion and Neurite Outgrowth by Patterned Gold Nanoparticles with Tunable Attractive or Repulsive Surface Properties. <i>Small</i> , 2012, 8, 3357-3367.	10.0	30
38	Electrochemical artifacts originating from nanoparticle contamination by Ag/AgCl quasi-reference electrodes. <i>Lab on A Chip</i> , 2014, 14, 602-607.	6.0	30
39	Noise and transport characterization of single molecular break junctions with individual molecule. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	29
40	Single Molecule Characterization of UV-Activated Antibodies on Gold by Atomic Force Microscopy. <i>Langmuir</i> , 2016, 32, 8084-8091.	3.5	29
41	Polyethylene glycol-mediated blocking and monolayer morphology of an electrochemical aptasensor for malaria biomarker detection in human serum. <i>Bioelectrochemistry</i> , 2020, 136, 107589.	4.6	29
42	Shaping the Atomic-Scale Geometries of Electrodes to Control Optical and Electrical Performance of Molecular Devices. <i>Small</i> , 2018, 14, e1703815.	10.0	28
43	Probing the effect of surface chemistry on the electrical properties of ultrathin gold nanowire sensors. <i>Nanoscale</i> , 2014, 6, 5146-5155.	5.6	27
44	Immobilization and Surface Functionalization of Gold Nanoparticles Monitored via Streaming Current/Potential Measurements. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5988-5994.	2.6	27
45	Molecular Orbital Gating Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2018, 12, 11229-11235.	14.6	27
46	Fabrication of Large-Scale Patterned Gold-Nanopillar Arrays on a Silicon Substrate Using Imprinted Porous Alumina Templates. <i>Small</i> , 2006, 2, 1256-1260.	10.0	26
47	Resistively switching Pt/spin-on glass/Ag nanocells for non-volatile memories fabricated with UV nanoimprint lithography. <i>Microelectronic Engineering</i> , 2009, 86, 1060-1062.	2.4	26
48	A simplified poly(dimethylsiloxane) capillary electrophoresis microchip integrated with a low-noise contactless conductivity detector. <i>Electrophoresis</i> , 2011, 32, 699-704.	2.4	26
49	Electrochemical current rectifier as a highly sensitive and selective cytosensor for cancer cell detection. <i>Chemical Communications</i> , 2012, 48, 2594.	4.1	26
50	Observation of chemically protected polydimethylsiloxane: towards crack-free PDMS. <i>Soft Matter</i> , 2017, 13, 6297-6303.	2.7	25
51	Nanoimprint for future non-volatile memory and logic devices. <i>Microelectronic Engineering</i> , 2008, 85, 870-872.	2.4	24
52	Direct electrochemistry of novel affinity-tag immobilized recombinant horse heart cytochrome c. <i>Biosensors and Bioelectronics</i> , 2012, 34, 171-177.	10.1	24
53	The Role of Oxidative Etching in the Synthesis of Ultrathin Single-Crystalline Au Nanowires. <i>Chemistry - A European Journal</i> , 2011, 17, 9503-9507.	3.3	22
54	A nanoporous alumina microelectrode array for functional cell-chip coupling. <i>Nanotechnology</i> , 2012, 23, 495303.	2.6	22

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55	Electrochemical current rectification at bio-functionalized electrodes. <i>Bioelectrochemistry</i> , 2010, 77, 89-93.	4.6	21
56	Deformation of nanostructures on polymer molds during soft UV nanoimprint lithography. <i>Nanotechnology</i> , 2010, 21, 245307.	2.6	21
57	Noise characterization of metal-single molecule contacts. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	21
58	Flexible Microgap Electrodes by Direct Inkjet Printing for Biosensing Application. <i>Advanced Biology</i> , 2017, 1, 1600016.	3.0	21
59	High Aspect Ratio and Light-Sensitive Micropillars Based on a Semiconducting Polymer Optically Regulate Neuronal Growth. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23438-23451.	8.0	21
60	Determination of heavy metal ions by microchip capillary electrophoresis coupled with contactless conductivity detection. <i>Electrophoresis</i> , 2012, 33, 1247-1250.	2.4	20
61	Electrochemically triggered aptamer immobilization via click reaction for vascular endothelial growth factor detection. <i>Engineering in Life Sciences</i> , 2016, 16, 550-559.	3.6	19
62	Flexible Gold Nanocone Array Surfaces as a Tool for Regulating Neuronal Behavior. <i>Small</i> , 2017, 13, 1700629.	10.0	19
63	Scanning Probe Microscopic Studies of the Oriented Attachment and Membrane Reconstitution of Cytochrome c Oxidase to a Gold Electrode. <i>Langmuir</i> , 2005, 21, 8580-8583.	3.5	18
64	Impedimetric detection of covalently attached biomolecules on field-effect transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 417-425.	1.8	18
65	Transistor Functions Based on Electrochemical Rectification. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4029-4032.	13.8	18
66	Tuning neuron adhesion and neurite guiding using functionalized AuNPs and backfill chemistry. <i>RSC Advances</i> , 2015, 5, 39252-39262.	3.6	18
67	A Novel Ratiometric Electrochemical Biosensor Based on a Split Aptamer for the Detection of Dopamine with Logic Gate Operations. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900924.	1.8	18
68	Randomly positioned gold nanoparticles as fluorescence enhancers in apta-immunosensor for malaria test. <i>Mikrochimica Acta</i> , 2021, 188, 88.	5.0	18
69	Molecular junctions based on intermolecular electrostatic coupling. <i>Chemical Communications</i> , 2010, 46, 8014.	4.1	17
70	Multi-target electrochemical malaria aptasensor on flexible multielectrode arrays for detection in malaria parasite blood samples. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130812.	7.8	17
71	Delineating charge and capacitance transduction in system-integrated graphene-based BioFETs used as aptasensors for malaria detection. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114219.	10.1	17
72	Nanocavity crossbar arrays for parallel electrochemical sensing on a chip. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1137-1143.	2.8	16

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73	Engineering of Neuron Growth and Enhancing Cell-Chip Communication via Mixed SAMs. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18507-18514.	8.0	16
74	An electrochemical aptamer-based biosensor targeting <i>Plasmodium falciparum</i> histidine-rich protein II for malaria diagnosis. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113472.	10.1	16
75	Molecular Junctions Bridged by Metal Ion Complexes. <i>Chemistry - A European Journal</i> , 2011, 17, 13166-13169.	3.3	15
76	Printing of Highly Integrated Crossbar Junctions. <i>Advanced Functional Materials</i> , 2012, 22, 1129-1135.	14.9	15
77	Controlled Engineering of Oxide Surfaces for Bioelectronics Applications Using Organic Mixed Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29265-29272.	8.0	15
78	Nanoparticle stripe sensor for highly sensitive and selective detection of mercury ions. <i>Biosensors and Bioelectronics</i> , 2018, 117, 450-456.	10.1	15
79	Vapor-Phase Deposition and Electronic Characterization of 3-Aminopropyltriethoxysilane Self-Assembled Monolayers on Silicon Dioxide. <i>Langmuir</i> , 2019, 35, 8183-8190.	3.5	15
80	Polymer Nanopillars Induce Increased Paxillin Adhesion Assembly and Promote Axon Growth in Primary Cortical Neurons. <i>Advanced Biology</i> , 2021, 5, 2000248.	2.5	15
81	A simple poly(dimethylsiloxane) electrophoresis microchip with an integrated contactless conductivity detector. <i>Mikrochimica Acta</i> , 2011, 172, 193-198.	5.0	14
82	Characterization of organic adsorbates of CdS(100) surfaces by SXPS and XANES investigation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 96, 245-251.	1.7	13
83	Determination of the Stability Constant of the Intermediate Complex during the Synthesis of Au Nanoparticles Using Aurous Halide. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20143-20147.	3.1	13
84	Rectified tunneling current response of bio-functionalized metal-bridge-metal junctions. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1173-1178.	10.1	13
85	Advanced fabrication of Si nanowire FET structures by means of a parallel approach. <i>Nanotechnology</i> , 2014, 25, 275302.	2.6	13
86	Influence of Self-Assembled Alkanethiol Monolayers on Stochastic Amperometric On-Chip Detection of Silver Nanoparticles. <i>Analytical Chemistry</i> , 2016, 88, 3632-3637.	6.5	13
87	Shell-binary nanoparticle materials with variable electrical and electro-mechanical properties. <i>Nanoscale</i> , 2018, 10, 992-1003.	5.6	13
88	MEA Recordings and Cell-Substrate Investigations with Plasmonic and Transparent, Tunable Holey Gold. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46451-46461.	8.0	13
89	Highly selective and sensitive detection of glutamate by an electrochemical aptasensor. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1609-1622.	3.7	13
90	Angular-resolved XANES measurements of the polar and azimuthal orientation of alkanethiols on InP(110). <i>Chemical Physics Letters</i> , 1999, 311, 8-12.	2.6	12

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91	Dual-Transducer Malaria Aptasensor Combining Electrochemical Impedance and Surface Plasmon Polariton Detection on Gold Nanohole Arrays. <i>ChemElectroChem</i> , 2020, 7, 4594-4600.	3.4	12
92	DNA aptamer selection for SARS-CoV-2 spike glycoprotein detection. <i>Analytical Biochemistry</i> , 2022, 645, 114633.	2.4	12
93	XANES and XPS characterization of hard amorphous CSi x N y thin films grown by RF nitrogen plasma assisted pulsed laser deposition. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 365, 244-248.	1.5	11
94	Electrochemical characterization of the effect of gold nanoparticles on the electron transfer of cytochrome c. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 489-500.	1.8	11
95	Fabrication of nanogaps with modified morphology by potential-controlled gold deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 73-75.	2.4	11
96	On-chip fast scan cyclic voltammetry for selective detection of redox active neurotransmitters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1364-1371.	1.8	11
97	Surface Plasmon-Enhanced Switching Kinetics of Molecular Photochromic Films on Gold Nanohole Arrays. <i>Nano Letters</i> , 2020, 20, 5243-5250.	9.1	11
98	Inkjet-Printed and Electroplated 3D Electrodes for Recording Extracellular Signals in Cell Culture. <i>Sensors</i> , 2021, 21, 3981.	3.8	11
99	Single-Impact Electrochemistry in Paper-Based Microfluidics. <i>ACS Sensors</i> , 2022, 7, 884-892.	7.8	11
100	Bidirectional immobilization of affinity-tagged cytochrome c on electrode surfaces. <i>Chemical Communications</i> , 2010, 46, 5295.	4.1	10
101	Generation of Protein Nanogradients by Microcontact Printing. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 05DA19.	1.5	10
102	In Situ Analysis of the Growth and Dielectric Properties of Organic Self-Assembled Monolayers: A Way To Tailor Organic Layers for Electronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16451-16456.	8.0	10
103	Engineering Biocompatible Interfaces via Combinations of Oxide Films and Organic Self-Assembled Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17121-17129.	8.0	9
104	A Highly Sensitive Amperometric Aptamer Biosensor for Adenosine Triphosphate Detection on a 64 Channel Gold Multielectrode Array. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900925.	1.8	9
105	Asymmetric, nano-textured surfaces influence neuron viability and polarity. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1634-1645.	4.0	8
106	Noise spectroscopy of tunable nanoconstrictions: molecule-free and molecule-modified. <i>Nanotechnology</i> , 2018, 29, 385704.	2.6	8
107	Engineering Electrostatic Repulsion of Metal Nanoparticles for Reduced Adsorption in Single-Impact Electrochemical Recordings. <i>ACS Applied Nano Materials</i> , 2021, 4, 8314-8320.	5.0	8
108	Surface coupling strength of gold nanoparticles affects cytotoxicity towards neurons. <i>Biomaterials Science</i> , 2017, 5, 1051-1060.	5.4	7

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109	The Structure of the Electric Double Layer of the Protic Ionic Liquid [Dema][TfO] Analyzed by Atomic Force Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12653.	4.1	7
110	Characterization of the mercaptobenzothiazole bonding on cadmiumsulfide by MO interpretation of N K XANES results. <i>Chemical Physics</i> , 2002, 277, 117-123.	1.9	6
111	Molecular rectification in metal-bridge molecule-metal junctions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 891-897.	1.8	6
112	Low impedance surface coatings via nanopillars and conductive polymers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1284-1289.	1.8	6
113	Neuronal adhesion and growth on nanopatterned EA5-POPC synthetic membranes. <i>Nanoscale</i> , 2018, 10, 5295-5301.	5.6	6
114	Surface Functionalization of Platinum Electrodes with APTES for Bioelectronic Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 7113-7121.	4.6	6
115	Origins of Leakage Currents on Electrolyte-Gated Graphene Field-Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5355-5364.	4.3	6
116	Distance tunnelling characteristics of solid/liquid interfaces: Au(111)/Cu ²⁺ /H ₂ SO ₄ . <i>PhysChemComm</i> , 2002, 5, 112.	0.8	5
117	Electronic Responses to Humidity in Monolayer and Multilayer AuNP Stripes Fabricated by Convective Self-Assembly. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700950.	1.8	5
118	Facile, non-destructive characterization of 2d photonic crystals using UV-vis-spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4340-4346.	2.8	5
119	Double-Resonant Nanostructured Gold Surface for Multiplexed Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6417-6427.	8.0	5
120	Simple and Flexible Model for Laser-Driven Antibody-Gold Surface Interactions: Functionalization and Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21762-21769.	8.0	4
121	SAW gas sensor based on extremely thin strain-engineered K _{0.7} Na _{0.3} NbO ₃ films. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	4
122	Inkjet printed Ta ₂ O ₅ on a flexible substrate for capacitive pH sensing at high ionic strength. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132250.	7.8	4
123	SXPS analysis of passivation and complexation on the CdS (101̂ 0) surface. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 689-692.	1.5	3
124	Electrochemical Oxidation as Vertical Structuring Tool for Ultrathin (<i>d</i> $\leq 10\text{ nm}$) Valve Metal Films. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, P143-P148.	1.8	3
125	Tantalum(<sc>v</sc>) 1,3-propanediolate ̂ ² -diketonate solution as a precursor to sol-gel derived, metal oxide thin films. <i>RSC Advances</i> , 2020, 10, 13737-13748.	3.6	3
126	Prototype Digital Lateral Flow Sensor Using Impact Electrochemistry in a Competitive Binding Assay. <i>ACS Sensors</i> , 2022, 7, 1967-1976.	7.8	3

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127	Nonequilibrium Fermi energy characteristics of n- and p-semiconductor electrodes under dark and photocurrents up to large band bending. <i>Chemical Physics</i> , 1996, 202, 39-51.	1.9	2
128	Interfacing Biology with Electronic Devices. <i>Solid State Phenomena</i> , 2005, 108-109, 789-796.	0.3	2
129	Noise spectroscopy of AlGaIn/GaN HEMT structures with long channels. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P01046.	2.3	2
130	Molecular Electronics: Mechanically Controllable Break Junctions for Molecular Electronics (Adv.) <i>TJ ETQq0 0 0 rgBT/Overlock₂ 10 Tf 50 6</i>	21.0	2
131	3D Au@SiO ₂ nanohybrids as a potential scaffold coating material for neuroengineering. <i>RSC Advances</i> , 2016, 6, 47948-47952.	3.6	2
132	Electrochemical Nanocavity Devices. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2017, , 199-214.	0.5	2
133	Field-effect Devices Functionalised with Gold-Nanoparticle/Macromolecule Hybrids: New Opportunities for a Label-Free Biosensing. <i>Procedia Engineering</i> , 2012, 47, 273-276.	1.2	1
134	Transport properties characterization of individual molecule device using noise spectroscopy: A new approach. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	1
135	Functional peptides for capacitative detection of Ca ²⁺ ions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1030-1037.	1.8	1
136	Temperature-Dependent Electron Transport in Single Terphenyldithiol Molecules. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2911-2917.	2.5	1
137	Fabrication of patterned surface by soft lithographic technique for confinement of lipid bilayer. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
138	Stability makes a difference. <i>Nature Nanotechnology</i> , 2019, 14, 925-926.	31.5	1
139	Neuron Adhesion: Control of Cell Adhesion and Neurite Outgrowth by Patterned Gold Nanoparticles with Tunable Attractive or Repulsive Surface Properties (<i>Small</i> 21/2012). <i>Small</i> , 2012, 8, 3226-3226.	10.0	0
140	Origin of noise in structures with tuned nanoconstrictions. , 2013, , .		0
141	Using Interdigitated Organic Electrochemical Transistors as Electrophysiological and Biochemical Sensors. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
142	SXPS and XANES Studies of Interface Reactions of Organic Molecules on Sulfide Semiconductors. , 2003, , 99-113.		0
143	(Digital Presentation) Stochastic Impact Electrochemistry in a Lateral-Flow Sensor Architecture. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2116-2116.	0.0	0