

# Fernando patolsky

## List of Publications by Citations

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142  
papers

15,563  
citations

55  
h-index

124  
g-index

149  
ext. papers

16,667  
ext. citations

11  
avg, IF

6.5  
L-index

#	Paper	IF	Citations
142	Multiplexed electrical detection of cancer markers with nanowire sensor arrays. <i>Nature Biotechnology</i> , <b>2005</b> , 23, 1294-301	44.5	1995
141	"Plugging into Enzymes": nanowiring of redox enzymes by a gold nanoparticle. <i>Science</i> , <b>2003</b> , 299, 1877-81	33.3	1138
140	Electrical detection of single viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 14017-22	11.5	1056
139	Detection, stimulation, and inhibition of neuronal signals with high-density nanowire transistor arrays. <i>Science</i> , <b>2006</b> , 313, 1100-4	33.3	709
138	Nanowire nanosensors. <i>Materials Today</i> , <b>2005</b> , 8, 20-28	21.8	607
137	Nanowire-based biosensors. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 4260-9	7.8	605
136	Fabrication of silicon nanowire devices for ultrasensitive, label-free, real-time detection of biological and chemical species. <i>Nature Protocols</i> , <b>2006</b> , 1, 1711-24	18.8	605
135	Long-range electrical contacting of redox enzymes by SWCNT connectors. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2113-7	16.4	533
134	Nanomaterials for Neural Interfaces. <i>Advanced Materials</i> , <b>2009</b> , 21, 3970-4004	24	422
133	Nanowire sensors for medicine and the life sciences. <i>Nanomedicine</i> , <b>2006</b> , 1, 51-65	5.6	369
132	Detection of single-base DNA mutations by enzyme-amplified electronic transduction. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 253-7	44.5	341
131	Lighting-up the dynamics of telomerization and DNA replication by CdSe-ZnS quantum dots. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 13918-9	16.4	330
130	Nanowire-Based Nanoelectronic Devices in the Life Sciences. <i>MRS Bulletin</i> , <b>2007</b> , 32, 142-149	3.2	284
129	Photoelectrochemistry with Controlled DNA-Cross-Linked CdS Nanoparticle Arrays. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1861-1864	16.4	279
128	Electronic transduction of DNA sensing processes on surfaces: amplification of DNA detection and analysis of single-base mismatches by tagged liposomes. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5194-205	16.4	239
127	Supersensitive detection of explosives by silicon nanowire arrays. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6830-5	16.4	233
126	Precipitation of an insoluble product on enzyme monolayer electrodes for biosensor applications: characterization by Faradaic impedance spectroscopy, cyclic voltammetry, and microgravimetric quartz crystal microbalance analyses. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 3171-80	7.8	211

125	Actin-based metallic nanowires as bio-nanotransporters. <i>Nature Materials</i> , <b>2004</b> , 3, 692-5	27	206
124	Redox-active nucleic-acid replica for the amplified bioelectrocatalytic detection of viral DNA. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 770-2	16.4	203
123	Au-nanoparticle nanowires based on DNA and polylysine templates. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 2323-7	16.4	179
122	Amplified Microgravimetric Quartz-Crystal-Microbalance Assay of DNA Using Oligonucleotide-Functionalized Liposomes or Biotinylated Liposomes. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 418-419	16.4	172
121	Enzyme-Linked Amplified Electrochemical Sensing of Oligonucleotide-DNA Interactions by Means of the Precipitation of an Insoluble Product and Using Impedance Spectroscopy. <i>Langmuir</i> , <b>1999</b> , 15, 3703-3706	4	172
120	Biorecognition layer engineering: overcoming screening limitations of nanowire-based FET devices. <i>Nano Letters</i> , <b>2012</b> , 12, 5245-54	11.5	163
119	Sensing and amplification of oligonucleotide-DNA interactions by means of impedance spectroscopy: a route to a Taylor-Bachsch sensor. <i>Chemical Communications</i> , <b>1999</b> , 21-22	5.8	158
118	Amplified detection of DNA and analysis of single-base mismatches by the catalyzed deposition of gold on Au-nanoparticles. <i>Analyst, The</i> , <b>2001</b> , 126, 1502-4	5	156
117	Supersensitive fingerprinting of explosives by chemically modified nanosensors arrays. <i>Nature Communications</i> , <b>2014</b> , 5, 4195	17.4	136
116	Amplified detection of single-base mismatches in DNA using microgravimetric quartz-crystal-microbalance transduction. <i>Talanta</i> , <b>2002</b> , 56, 847-56	6.2	126
115	Electrochemical control of the photocurrent direction in intercalated DNA/CdS nanoparticle systems. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 4554-7	16.4	125
114	Electrochemical Transduction of Liposome-Amplified DNA Sensing. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 940-943	16.4	125
113	Dendritic amplification of DNA analysis by oligonucleotide-functionalized Au-nanoparticles. <i>Chemical Communications</i> , <b>2000</b> , 1025-1026	5.8	124
112	Amplified DNA detection by electrogenerated biochemiluminescence and by the catalyzed precipitation of an insoluble product on electrodes in the presence of the doxorubicin intercalator. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 3398-402	16.4	119
111	Magnetically amplified DNA assays (MADA): sensing of viral DNA and single-base mismatches by using nucleic acid modified magnetic particles. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2372-6	16.4	114
110	Amplified DNA sensing and immunosensing by the rotation of functional magnetic particles. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3452-4	16.4	111
109	Engineering vertically aligned semiconductor nanowire arrays for applications in the life sciences. <i>Nano Today</i> , <b>2014</b> , 9, 172-196	17.9	108
108	Light-emitting self-assembled peptide nucleic acids exhibit both stacking interactions and Watson-Crick base pairing. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 353-60	28.7	107

107	Electrochemical Assembly of a CdS Semiconductor Nanoparticle Monolayer on Surfaces: Structural Properties and Photoelectrochemical Applications. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5875-5881 <sup>3,4</sup>	16.4	103
106	Enzyme-catalyzed bio-pumping of electrons into au-nanoparticles: a surface plasmon resonance and electrochemical study. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7133-43	16.4	102
105	Tissue-like Silicon Nanowires-Based Three-Dimensional Anodes for High-Capacity Lithium Ion Batteries. <i>Nano Letters</i> , <b>2015</b> , 15, 3907-16	11.5	99
104	Controlled electrocatalysis by microperoxidase-11 and Au-nanoparticle superstructures on conductive supports. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 479, 69-73	4.1	99
103	Photoswitchable Antigen-Antibody Interactions Studied by Impedance Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 10359-10367	3.4	95
102	Biofuel cell based on glucose oxidase and microperoxidase-11 monolayer-functionalized electrodes. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1998</b> , 1817-1822		93
101	Si nanowires forest-based on-chip biomolecular filtering, separation and preconcentration devices: nanowires do it all. <i>Nano Letters</i> , <b>2012</b> , 12, 4748-56	11.5	91
100	Full rotational control of levitated silicon nanorods. <i>Optica</i> , <b>2017</b> , 4, 356	8.6	81
99	Knocking down highly-ordered large-scale nanowire arrays. <i>Nano Letters</i> , <b>2010</b> , 10, 1202-8	11.5	79
98	Highly sensitive amplified electronic detection of DNA by biocatalyzed precipitation of an insoluble product onto electrodes. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 1137-45	4.8	78
97	Magneto-mechanical detection of nucleic acids and telomerase activity in cancer cells. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 1073-80	16.4	77
96	Confinement-guided shaping of semiconductor nanowires and nanoribbons: "writing with nanowires". <i>Nano Letters</i> , <b>2012</b> , 12, 7-12	11.5	66
95	Telomerase-Generated Templates for the Growing of Metal Nanowires. <i>Nano Letters</i> , <b>2004</b> , 4, 787-792	11.5	64
94	Photochemical Imprint of Molecular Recognition Sites in Monolayers Assembled on Au Electrodes. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 862-863	16.4	64
93	Large-scale ordered 1D-nanomaterials arrays: Assembly or not?. <i>Nano Today</i> , <b>2013</b> , 8, 677-694	17.9	63
92	Electronic Transduction of Polymerase or Reverse Transcriptase Induced Replication Processes on Surfaces: Highly Sensitive and Specific Detection of Viral Genomes. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 2261-2265	16.4	63
91	Optically driven ultra-stable nanomechanical rotor. <i>Nature Communications</i> , <b>2017</b> , 8, 1670	17.4	60
90	Shape- and dimension-controlled single-crystalline silicon and SiGe nanotubes: toward nanofluidic FET devices. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3679-89	16.4	60

89	Hydrazine/air direct-liquid fuel cell based on nanostructured copper anodes. <i>Journal of Power Sources</i> , <b>2012</b> , 204, 116-121	8.9	58
88	Photoelectrochemistry with Controlled DNA-Cross-Linked CdS Nanoparticle Arrays. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 1913-1916	3.6	55
87	Ohmic contacts to SnS films: Selection and estimation of thermal stability. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 124503	2.5	54
86	Cavity-Assisted Manipulation of Freely Rotating Silicon Nanorods in High Vacuum. <i>Nano Letters</i> , <b>2015</b> , 15, 5604-8	11.5	53
85	Electrical contacting of glucose dehydrogenase by the reconstitution of a pyrroloquinoline quinone-functionalized polyaniline film associated with an Au-electrode: an in situ electrochemical SPR study. <i>Chemical Communications</i> , <b>2002</b> , 1936-7	5.8	50
84	C60-mediated bioelectrocatalyzed oxidation of glucose with glucose oxidase. <i>Journal of Electroanalytical Chemistry</i> , <b>1998</b> , 454, 9-13	4.1	48
83	Highly ordered large-scale neuronal networks of individual cells - toward single cell to 3D nanowire intracellular interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 3542-9	9.5	45
82	Long-Range Electrical Contacting of Redox Enzymes by SWCNT Connectors. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 2165-2169	3.6	45
81	Non-covalent monolayer-piercing anchoring of lipophilic nucleic acids: preparation, characterization, and sensing applications. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 280-92	16.4	43
80	Optically-gated self-calibrating nanosensors: monitoring pH and metabolic activity of living cells. <i>Nano Letters</i> , <b>2013</b> , 13, 3157-68	11.5	43
79	A Crosslinked Microperoxidase-11 and Nitrate Reductase Monolayer on a Gold Electrode: An Integrated Electrically Contacted Electrode for the Bioelectrocatalyzed Reduction of NO <sub>3</sub> <sup>-</sup> . <i>Chemistry - A European Journal</i> , <b>1998</b> , 4, 1068-1073	4.8	42
78	A route to high-quality crystalline coaxial core/multishell Ge@Si(GeSi)(n) and Si@(GeSi)(n) nanowire heterostructures. <i>Advanced Materials</i> , <b>2010</b> , 22, 902-6	24	41
77	Large-Scale Self-Catalyzed Spongelike Silicon Nano-Network-Based 3D Anodes for High-Capacity Lithium-Ion Batteries. <i>Nano Letters</i> , <b>2019</b> , 19, 1944-1954	11.5	38
76	Long-term room-temperature hydrazine/air fuel cells based on low-cost nanotextured CuNi catalysts. <i>Journal of Power Sources</i> , <b>2014</b> , 246, 423-429	8.9	37
75	Electrochemical synthesis of morphology-controlled segmented CdSe nanowires. <i>ACS Nano</i> , <b>2010</b> , 4, 1901-6	16.7	36
74	Antigen-Dissociation from Antibody-Modified Nanotransistor Sensor Arrays as a Direct Biomarker Detection Method in Unprocessed Biosamples. <i>Nano Letters</i> , <b>2016</b> , 16, 6272-6281	11.5	34
73	Au-Nanoparticle Nanowires Based on DNA and Polylysine Templates. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 2429-2433	3.6	32
72	Amplified telomerase analysis by using rotating magnetic particles: the rapid and sensitive detection of cancer cells. <i>ChemBioChem</i> , <b>2004</b> , 5, 943-8	3.8	31

71	Monolithic integration of a silicon nanowire field-effect transistors array on a complementary metal-oxide semiconductor chip for biochemical sensor applications. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 9982-90	7.8	30
70	Weak rectifying behaviour of p-SnS/n-ITO heterojunctions. <i>Solid-State Electronics</i> , <b>2009</b> , 53, 630-634	1.7	29
69	Electrocatalytic intercalator-induced winding of double-stranded DNA with polyaniline. <i>Chemical Communications</i> , <b>2003</b> , 1540-1	5.8	29
68	Manipulating and Monitoring On-Surface Biological Reactions by Light-Triggered Local pH Alterations. <i>Nano Letters</i> , <b>2015</b> , 15, 4758-68	11.5	28
67	Amplified DNA Detection by Electrogenerated Biochemiluminescence and by the Catalyzed Precipitation of an Insoluble Product on Electrodes in the Presence of the Doxorubicin Intercalator. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 3548-3552	3.6	28
66	From crystalline germanium-silicon axial heterostructures to silicon nanowire-nanotubes. <i>Nano Letters</i> , <b>2012</b> , 12, 1121-8	11.5	27
65	Morphological and chemical stability of silicon nanostructures and their molecular overlayers under physiological conditions: towards long-term implantable nanoelectronic biosensors. <i>Journal of Nanobiotechnology</i> , <b>2014</b> , 12, 7	9.4	26
64	Wall-selective chemical alteration of silicon nanotube molecular carriers. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1545-52	16.4	26
63	Synthesis of hybrid multicomponent disklike nanoparticles. <i>Nano Letters</i> , <b>2008</b> , 8, 3964-72	11.5	26
62	Engineered nano-bio interfaces for intracellular delivery and sampling: Applications, agency and artefacts. <i>Materials Today</i> , <b>2020</b> , 33, 87-104	21.8	26
61	Electrochemical Control of the Photocurrent Direction in Intercalated DNA/CdS Nanoparticle Systems. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 4630-4633	3.6	24
60	Tube-in-tube and wire-in-tube nano building blocks: towards the realization of multifunctional nanoelectronic devices. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 8699-702	16.4	20
59	On-surface formation of metal nanowire transparent top electrodes on CdSe nanowire array-based photoconductive devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 3157-62	9.5	19
58	Heteroepitaxial Si/ZnO hierarchical nanostructures for future optoelectronic devices. <i>ChemPhysChem</i> , <b>2010</b> , 11, 809-14	3.2	19
57	Temperature dependent structural properties of nanocrystalline SnS structures. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 261907	3.4	18
56	Magnetically Amplified DNA Assays (MADA): Sensing of Viral DNA and Single-Base Mismatches by Using Nucleic Acid Modified Magnetic Particles. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 2474-2478	3.6	18
55	Excited-State Proton Transfer and Proton Diffusion near Hydrophilic Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 25786-25797	3.8	17
54	Pressure-modulated alloy composition in Si((1-x))Ge(x) nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 1775-9	11.5	17

53	Probing of DNA and Single-Base Mismatches by Chemical Force Microscopy Using Peptide Nucleic Acid-Modified Sensing Tips and Functionalized Surfaces. <i>Langmuir</i> , <b>2001</b> , 17, 5134-5136	4	17
52	Self-Catalyzed Vertically Aligned Carbon Nanotube-Silicon Core-Shell Array for Highly Stable, High-Capacity Lithium-Ion Batteries. <i>Langmuir</i> , <b>2020</b> , 36, 889-896	4	16
51	The Influence of Doping on the Chemical Composition, Morphology and Electrical Properties of Si(100)Ge Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4331-4335	3.8	15
50	Nanotextured metal copper substrates as powerful and long-lasting fuel cell anodes. <i>Nano Letters</i> , <b>2011</b> , 11, 1727-32	11.5	15
49	Direct Detection of Uranyl in Urine by Dissociation from Aptamer-Modified Nanosensor Arrays. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 12528-12537	7.8	15
48	Supersensitive Detection of Explosives by Silicon Nanowire Arrays. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 6982-6987	11.5	14
47	Multicolor Spectral-Specific Silicon Nanodetectors based on Molecularly Embedded Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 190-201	11.5	14
46	Direct and Selective Electrochemical Vapor Trace Detection of Organic Peroxide Explosives via Surface Decoration. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 5323-5330	7.8	13
45	Cellular Metabolomics by a Universal Redox-Reactive Nanosensors Array: From the Cell Level to Tumor-on-a-Chip Analysis. <i>Nano Letters</i> , <b>2019</b> , 19, 2478-2488	11.5	13
44	Highly active engineered-enzyme oriented monolayers: formation, characterization and sensing applications. <i>Journal of Nanobiotechnology</i> , <b>2011</b> , 9, 26	9.4	13
43	Synthesis and cathodoluminescence properties of CdSe/ZnO hierarchical nanostructures. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3858		13
42	Light-Controlled Selective Collection-and-Release of Biomolecules by an On-Chip Nanostructured Device. <i>Nano Letters</i> , <b>2019</b> , 19, 5868-5878	11.5	12
41	Probing the interactions of intrinsically disordered proteins using nanoparticle tags. <i>Nano Letters</i> , <b>2015</b> , 15, 3080-7	11.5	11
40	Pillararene-Based Two-Component Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 15750-15755	4.8	11
39	Clinic-on-a-Needle Array toward Future Minimally Invasive Wearable Artificial Pancreas Applications. <i>ACS Nano</i> , <b>2021</b> ,	16.7	11
38	Redox-Reactive Field-Effect Transistor Nanodevices for the Direct Monitoring of Small Metabolites in Biofluids toward Implantable Nanosensors Arrays. <i>ACS Nano</i> , <b>2020</b> , 14, 3587-3594	16.7	10
37	Nanotechnology meets electrophysiology. <i>Current Opinion in Biotechnology</i> , <b>2013</b> , 24, 654-63	11.4	10
36	Controlled Synthesis of Ferromagnetic Semiconducting Silicon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 8000-8007	3.8	10

35	Shape induced sorting via rim-to-rim complementarity in the formation of pillar[5, 6]arene-based supramolecular organogels. <i>Organic Chemistry Frontiers</i> , <b>2019</b> , 6, 3348-3354	5.2	9
34	Electrochemical Transduction of Liposome-Amplified DNA Sensing. <i>Angewandte Chemie</i> , <b>2000</b> , 112, 970-973	9.7	9
33	Nanodicing Single Crystalline Silicon Nanowire Arrays. <i>Nano Letters</i> , <b>2016</b> , 16, 6960-6966	11.5	9
32	Real-time monitoring of bacterial biofilms metabolic activity by a redox-reactive nanosensors array. <i>Journal of Nanobiotechnology</i> , <b>2020</b> , 18, 81	9.4	8
31	Comment on "Detection, stimulation, and inhibition of neuronal signals with high-density nanowire transistor arrays". <i>Science</i> , <b>2009</b> , 323, 1429; author reply 1429	33.3	8
30	Analysis of Scale-up Parameters in 3D Silicon-Nanowire Lithium-Battery Anodes. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 050511	3.9	7
29	Optically transparent vertical silicon nanowire arrays for live-cell imaging. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 51	9.4	6
28	2 Interfacing Biomolecules, Cells and Tissues with Nanowire-based Electrical Devices. <i>Modern Aspects of Electrochemistry</i> , <b>2012</b> , 67-104		5
27	Tube-in-Tube and Wire-in-Tube Nano Building Blocks: Towards the Realization of Multifunctional Nanoelectronic Devices. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 8855-8858	3.6	5
26	Titelbild: Supersensitive Detection of Explosives by Silicon Nanowire Arrays (Angew. Chem. 38/2010). <i>Angewandte Chemie</i> , <b>2010</b> , 122, 6835-6835	3.6	5
25	Breathing parylene-based nanothin artificial SEI for highly-stable long life three-dimensional silicon lithium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132077	14.7	5
24	Unwrapping core-shell nanowires into nanoribbon-based superstructures. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11298-302	16.4	4
23	Electronic Transduction of Polymerase or Reverse Transcriptase Induced Replication Processes on Surfaces: Highly Sensitive and Specific Detection of Viral Genomes. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 2321-2325	3.6	4
22	Spatially resolved measurement of plasmon dispersion using Fourier-plane spectral imaging. <i>Photonics Research</i> , <b>2018</b> , 6, 653	6	3
21	Vapor Trace Collection and Direct Ultrasensitive Detection of Nitro-Explosives by 3D Microstructured Electrodes. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 14375-14382	7.8	3
20	Synthesis and electrochemical performance of silicon-nanowire alloy anodes.. <i>RSC Advances</i> , <b>2021</b> , 11, 26586-26593	3.7	3
19	Novel non-invasive early detection of lung cancer using liquid immunobiopsy metabolic activity profiles. <i>Cancer Immunology, Immunotherapy</i> , <b>2018</b> , 67, 1135-1146	7.4	3
18	Rapid Collection and Aptamer-Based Sensitive Electrochemical Detection of Soybean Rust Fungi Airborne Urediniospores. <i>ACS Sensors</i> , <b>2021</b> , 6, 1187-1198	9.2	3



17	Direct whole blood analysis by the antigen-antibody chemically-delayed dissociation from nanosensors arrays. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 170, 112658	11.8	2
16	Thermally-treated nanowire-structured stainless-steel as an attractive cathode material for lithium-ion batteries. <i>Nano Energy</i> , <b>2020</b> , 76, 105054	17.1	2
15	Ultrafast high-capacity capture and release of uranium by a light-switchable nanotextured surface. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 3615-3626	5.1	2
14	Single-Step Solid-State Scalable Transformation of Ni-Based Substrates to High-Oxidation State Nickel Sulfide Nanoplate Arrays as Exceptional Bifunctional Electrocatalyst for Overall Water Splitting.. <i>Small Methods</i> , <b>2022</b> , e2200181	12.8	2
13	Cover Picture: Supersensitive Detection of Explosives by Silicon Nanowire Arrays (Angew. Chem. Int. Ed. 38/2010). <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6685-6685	16.4	1
12	Multiplexed Electrical Detection of Single Viruses. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 828, 97		1
11	Diversely Doped Uniform Silicon Nanotube Axial Heterostructures Enabled by "Dopant Reflection". <i>Langmuir</i> , <b>2021</b> , 37, 1247-1254	4	1
10	Controlled Formation of Radial Core-Shell Si/Metal Silicide Crystalline Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 70-80	11.5	1
9	Pillararene-Based Two-Component Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 15695-15695	4.8	1
8	Self-transforming stainless-steel into the next generation anode material for lithium ion batteries. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 64, 432-441	12	1
7	Depletion of Highly Abundant Protein Species from Biosamples by the Use of a Branched Silicon Nanopillar On-Chip Platform. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 14527-14536	7.8	0
6	Unwrapping CoreShell Nanowires into Nanoribbon-Based Superstructures. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11508-11512	3.6	
5	DETERMINATION OF HYDROXYPYRENE TRISULFONATE BY TWO WAVELENGTH EXCITATION FLUORESCENCE USING A ONE MICROLITER CAPILLARY. <i>Instrumentation Science and Technology</i> , <b>2014</b> , 42, 627-634	1.4	
4	Innenrücktitelbild: Unwrapping CoreShell Nanowires into Nanoribbon-Based Superstructures (Angew. Chem. 43/2013). <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11637-11637	3.6	
3	Parallel and Complementary Detection of Proteins by p-type and n-type Silicon Nanowire Transistor Arrays. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 900, 1		
2	Ultrasensitive and Specific Electronic Transduction of DNA Sensing Processes <b>2000</b> , 47-78		
1	Pouch-Cell Architecture Downscaled to Coin Cells for Electrochemical Characterization of Bilateral Electrodes**. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 767-770	5.6	