

Patrick Wagner

List of Publications by Year in descending order

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282
papers

5,585
citations

76196

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h-index

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59
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289
all docs

289
docs citations

289
times ranked

5780
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the subgap optical absorption in polymer-fullerene blend solar cells. <i>Applied Physics Letters</i> , 2006, 88, 052113.	1.5	158
2	Spin Dependent Hopping and Colossal Negative Magnetoresistance in Epitaxial $\text{Nd}_{0.52}\text{Sr}_{0.48}\text{MnO}_3$ Films in Fields up to 50 T. <i>Physical Review Letters</i> , 1998, 81, 3980-3983.	2.9	148
3	Nernst, Seebeck, and Hall effects in the mixed state of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ thin films: A comparative study. <i>Physical Review B</i> , 1994, 50, 3312-3329.	1.1	146
4	Absorption phenomena in organic thin films for solar cell applications investigated by photothermal deflection spectroscopy. <i>Journal of Materials Science</i> , 2005, 40, 1413-1418.	1.7	145
5	A Review on Synthetic Receptors for Bioparticle Detection Created by Surface-Imprinting Techniques—From Principles to Applications. <i>ACS Sensors</i> , 2016, 1, 1171-1187.	4.0	99
6	A MIP-based impedimetric sensor for the detection of low-MW molecules. <i>Biosensors and Bioelectronics</i> , 2008, 23, 913-918.	5.3	93
7	Nanocrystalline diamond impedimetric aptasensor for the label-free detection of human IgE. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2987-2993.	5.3	77
8	MIP-based sensor platforms for the detection of histamine in the nano- and micromolar range in aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2010, 148, 392-398.	4.0	76
9	Hf -magnetic phase diagrams of electron-doped $\text{Sm}_{1-x}\text{Ca}_x\text{MnO}_3$: Evidence for phase separation and metamagnetic transitions. <i>Physical Review B</i> , 2001, 63, .	1.1	75
10	Heat-Transfer Resistance at Solid–Liquid Interfaces: A Tool for the Detection of Single-Nucleotide Polymorphisms in DNA. <i>ACS Nano</i> , 2012, 6, 2712-2721.	7.3	74
11	Selective Identification of Macrophages and Cancer Cells Based on Thermal Transport through Surface-Imprinted Polymer Layers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7258-7267.	4.0	69
12	Separation of intra- and intergranular magnetotransport properties in nanocrystalline diamond films on the metallic side of the metal–insulator transition. <i>New Journal of Physics</i> , 2011, 13, 083008.	1.2	68
13	Towards a Real-Time, Label-Free, Diamond-Based DNA Sensor. <i>Langmuir</i> , 2007, 23, 13193-13202.	1.6	66
14	Development of an impedimetric sensor for the label-free detection of the amino acid sarcosine with molecularly imprinted polymer receptors. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 461-470.	4.0	65
15	Label-Free Detection of <i>Escherichia coli</i> Based on Thermal Transport through Surface Imprinted Polymers. <i>ACS Sensors</i> , 2016, 1, 1140-1147.	4.0	64
16	EDC-mediated DNA attachment to nanocrystalline CVD diamond films. <i>Biosensors and Bioelectronics</i> , 2006, 22, 170-177.	5.3	63
17	<i>t</i> -BuXPhos: a highly efficient ligand for Buchwald–Hartwig coupling in water. <i>Green Chemistry</i> , 2014, 16, 4170-4178.	4.6	62
18	Direct visualization of boron dopant distribution and coordination in individual chemical vapor deposition nanocrystalline B-doped diamond grains. <i>Applied Physics Letters</i> , 2012, 101, 041907.	1.5	61

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19	Fourier-Transform Photocurrent Spectroscopy for a fast and highly sensitive spectral characterization of organic and hybrid solar cells. <i>Thin Solid Films</i> , 2008, 516, 7135-7138.	0.8	59
20	Thermal detection of histamine with a graphene oxide based molecularly imprinted polymer platform prepared by reversible addition-fragmentation chain transfer polymerization. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 527-535.	4.0	59
21	The Heat-Transfer Method: A Versatile Low-Cost, Label-Free, Fast, and User-Friendly Readout Platform for Biosensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13309-13318.	4.0	59
22	MIP-based biomimetic sensor for the electronic detection of serotonin in human blood plasma. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 602-610.	4.0	58
23	Hierarchical Carbon Nanowire Microarchitectures Made by Plasma-Assisted Pyrolysis of Photoresist. <i>ACS Nano</i> , 2011, 5, 6593-6600.	7.3	55
24	Importance of Adjunctive Heart Failure Optimization Immediately After Implantation to Improve Long-Term Outcomes With Cardiac Resynchronization Therapy. <i>American Journal of Cardiology</i> , 2011, 108, 409-415.	0.7	55
25	Preparation and structural characterization of thin epitaxial Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ films with Tc in the 90 K range. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 215, 123-131.	0.6	54
26	Thermally activated flux movement and critical transport current density in epitaxial Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ films. <i>Physical Review B</i> , 1994, 49, 13184-13192.	1.1	54
27	Impedimetric Detection of Histamine in Bowel Fluids Using Synthetic Receptors with pH-Optimized Binding Characteristics. <i>Analytical Chemistry</i> , 2013, 85, 1475-1483.	3.2	54
28	Evidence for a vortex-liquid to vortex-glass transition in epitaxial Bi ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ + δ thin films. <i>Physical Review B</i> , 1995, 51, 1206-1212.	1.1	53
29	Diamond-based DNA sensors: surface functionalization and readout strategies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 391-408.	0.8	53
30	Chip-based amperometric enzyme sensor system for monitoring of bioprocesses by flow-injection analysis. <i>Journal of Biotechnology</i> , 2013, 163, 371-376.	1.9	51
31	A MIP-based biomimetic sensor for the impedimetric detection of histamine in different pH environments. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 837-843.	0.8	50
32	DNA Sensors with Diamond as a Promising Alternative Transducer Material. <i>Sensors</i> , 2009, 9, 5600-5636.	2.1	49
33	Superconducting transport properties of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ bicrystal grain boundary junctions. <i>Applied Physics Letters</i> , 1993, 63, 996-998.	1.5	47
34	Local boron environment in B-doped nanocrystalline diamond films. <i>Nanoscale</i> , 2012, 4, 5960.	2.8	46
35	Influence of Interface Morphology onto the Photovoltaic Properties of Nanopatterned ZnO/Poly(3-hexylthiophene) Hybrid Solar Cells. An Impedance Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16695-16700.	1.5	45
36	Heat-transfer-based detection of l-nicotine, histamine, and serotonin using molecularly imprinted polymers as biomimetic receptors. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6453-6460.	1.9	45

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37	Impedimetric, diamond-based immunosensor for the detection of C-reactive protein. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 130-138.	4.0	43
38	Sensitive and specific detection of E. coli using biomimetic receptors in combination with a modified heat-transfer method. <i>Biosensors and Bioelectronics</i> , 2019, 136, 97-105.	5.3	43
39	QCM-D Study of Time-Resolved Cell Adhesion and Detachment: Effect of Surface Free Energy on Eukaryotes and Prokaryotes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18258-18272.	4.0	43
40	Buchwald's Hartwig reactions in water using surfactants. <i>Tetrahedron</i> , 2014, 70, 3413-3421.	1.0	42
41	Growth of high quality YBa ₂ Cu ₃ O ₇ films on various substrate materials and influence of Zn-doping on superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 171, 231-237.	0.6	41
42	Phase transitions in lipid vesicles detected by a complementary set of methods: heat transfer measurements, adiabatic scanning calorimetry, and dissipation mode quartz crystal microbalance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1377-1388.	0.8	41
43	Cell detection by surface imprinted polymers SIPs: A study to unravel the recognition mechanisms. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 907-917.	4.0	41
44	In situ-preparation of Bi ₂ Sr ₂ CaCu ₂ O _y -thin films by DC-sputtering. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 195, 258-262.	0.6	40
45	Magnetotransport in epitaxial thin films of the magnetic perovskite Pr _{0.5} Sr _{0.5} MnO ₃ . <i>Physical Review B</i> , 1997, 55, 3699-3707.	1.1	40
46	Impedimetric immunosensors based on the conjugated polymer PPV. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2151-2156.	5.3	40
47	Carrier density variation in films of Nd _{0.5} Sr _{0.5} MnO ₃ . <i>Europhysics Letters</i> , 1998, 41, 49-54.	0.7	38
48	Structural and Optical Properties of DNA Layers Covalently Attached to Diamond Surfaces. <i>Langmuir</i> , 2008, 24, 7269-7277.	1.6	38
49	Vortex unbinding and layer decoupling in epitaxial Bi ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ + δ films. <i>Physical Review B</i> , 1995, 52, 4553-4558.	1.1	37
50	Temperature dependent memory effects in the bilayer manganite (La _{0.4} Pr _{0.6}) _{1.2} Sr _{1.8} Mn ₂ O ₇ . <i>Physical Review B</i> , 2001, 64, .	1.1	37
51	In-plane paraconductivity in La _{2-x} Sr _x CuO ₄ thin film superconductors at high reduced temperatures: Independence of the normal-state pseudogap. <i>Physical Review B</i> , 2003, 68, .	1.1	36
52	Role of grain size in superconducting boron-doped nanocrystalline diamond thin films grown by CVD. <i>Physical Review B</i> , 2011, 84, .	1.1	36
53	Topographical and Functional Characterization of the ssDNA Probe Layer Generated Through EDC-Mediated Covalent Attachment to Nanocrystalline Diamond Using Fluorescence Microscopy. <i>Langmuir</i> , 2008, 24, 9125-9134.	1.6	35
54	Rapid assessment of the stability of DNA duplexes by impedimetric real-time monitoring of chemically induced denaturation. <i>Lab on A Chip</i> , 2011, 11, 1656.	3.1	35

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55	Matching and surface barrier effects of the flux-line lattice in superconducting films and multilayers. <i>Physical Review B</i> , 1996, 53, 8658-8670.	1.1	34
56	Grain size tuning of nanocrystalline chemical vapor deposited diamond by continuous electrical bias growth: Experimental and theoretical study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1675-1682.	0.8	33
57	Molecularly imprinted polymers as synthetic receptors for the QCM-D-based detection of l-nicotine in diluted saliva and urine samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6479-6487.	1.9	33
58	Study of Interdigitated Electrode Arrays Using Experiments and Finite Element Models for the Evaluation of Sterilization Processes. <i>Sensors</i> , 2015, 15, 26115-26127.	2.1	33
59	Biomimetic Bacterial Identification Platform Based on Thermal Wave Transport Analysis (TWTA) through Surface-Imprinted Polymers. <i>ACS Infectious Diseases</i> , 2017, 3, 388-397.	1.8	33
60	Diamond Nucleation by Carbon Transport from Buried Nanodiamond TiO_2 Sol-Gel Composites. <i>Advanced Materials</i> , 2009, 21, 670-673.	11.1	32
61	Label-free Protein Detection Based on the Heat-Transfer Method—A Case Study with the Peanut Allergen Ara h 1 and Aptamer-Based Synthetic Receptors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10316-10323.	4.0	32
62	Label-Free Detection of Small Organic Molecules by Molecularly Imprinted Polymer Functionalized Thermocouples: Toward In Vivo Applications. <i>ACS Sensors</i> , 2017, 2, 583-589.	4.0	31
63	Bose-glass behavior of the vortex system in epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ films with columnar defects. <i>Physical Review B</i> , 1995, 51, 3953-3956.	1.1	30
64	High Electronic Conductance through Double-Helix DNA Molecules with Fullerene Anchoring Groups. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1182-1188.	1.1	30
65	Scaling of the angular dependence of the critical current density in high-Tc superconductors. <i>Physical Review B</i> , 1993, 47, 12099-12103.	1.1	29
66	DNA attachment to nanocrystalline diamond films. <i>Physica Status Solidi A</i> , 2005, 202, 2212-2216.	1.7	29
67	Heat-Transfer-Method-Based Cell Culture Quality Assay through Cell Detection by Surface Imprinted Polymers. <i>Langmuir</i> , 2015, 31, 2043-2050.	1.6	29
68	Thermocatalytic Behavior of Manganese (IV) Oxide as Nanoporous Material on the Dissociation of a Gas Mixture Containing Hydrogen Peroxide. <i>Nanomaterials</i> , 2018, 8, 262.	1.9	29
69	Mobile Application for Impedance-Based Biomimetic Sensor Readout. <i>IEEE Sensors Journal</i> , 2013, 13, 2659-2665.	2.4	27
70	A critical comparison of cell-based sensor systems for the detection of Cr(VI) in aquatic environment. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 58-65.	4.0	27
71	Phase Transitions of Binary Lipid Mixtures: A Combined Study by Adiabatic Scanning Calorimetry and Quartz Crystal Microbalance with Dissipation Monitoring. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-14.	0.4	27
72	Fabrication of optomicrofluidics for real-time bioassays based on hollow sphere colloidal photonic crystals with wettability patterns. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7853-7858.	2.7	27

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73	Laser-Grafted Molecularly Imprinted Polymers for the Detection of Histamine from Organocatalyzed Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2019, 52, 2304-2313.	2.2	27
74	Development of multichannel quartz crystal microbalances for MIP-based biosensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 892-899.	0.8	26
75	Optimizing the Thermal Read-Out Technique for MIP-Based Biomimetic Sensors: Towards Nanomolar Detection Limits. <i>Sensors</i> , 2013, 13, 9148-9159.	2.1	26
76	Heat-Transfer Resistance Measurement Method (HTM)-Based Cell Detection at Trace Levels Using a Progressive Enrichment Approach with Highly Selective Cell-Binding Surface Imprints. <i>Langmuir</i> , 2014, 30, 3631-3639.	1.6	26
77	Penicillin detection with nanocrystalline-diamond field-effect sensor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2141-2145.	0.8	25
78	Capacitively coupled electrolyte-conductivity sensor based on high-k material of barium strontium titanate. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 102-109.	4.0	25
79	Anomalous Hall effect in thin films of Pr _{0.5} Sr _{0.5} MnO ₃ . <i>Physical Review B</i> , 1997, 55, R14721-R14724.	1.1	24
80	Characterisation of capacitive field-effect sensors with a nanocrystalline-diamond film as transducer material for multi-parameter sensing. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1298-1304.	5.3	24
81	Melittin disruption of raft and non-raft-forming biomimetic membranes: A study by quartz crystal microbalance with dissipation monitoring. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 938-944.	2.5	24
82	Differential imaging of the metabolism of bacteria and eukaryotic cells based on light-addressable potentiometric sensors. <i>Electrochimica Acta</i> , 2017, 246, 234-241.	2.6	24
83	Influence of the cooperative Jahn-Teller effect on the transport and magnetic properties of La _{7/8} Sr _{1/8} MnO ₃ single crystals. <i>Physical Review B</i> , 2000, 61, 529-537.	1.1	23
84	Covalent immobilization of DNA on CVD diamond films. <i>Physica Status Solidi A</i> , 2003, 199, 44-48.	1.7	23
85	Microfluidic chip with integrated microvalves based on temperature- and pH-responsive hydrogel thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 839-845.	0.8	23
86	Array Formatting of the Heat-Transfer Method (HTM) for the Detection of Small Organic Molecules by Molecularly Imprinted Polymers. <i>Sensors</i> , 2014, 14, 11016-11030.	2.1	23
87	Improved Molecular Imprinting Based on Colloidal Particles Made from Miniemulsion: A Case Study on Testosterone and Its Structural Analogues. <i>Macromolecules</i> , 2016, 49, 2559-2567.	2.2	23
88	Comparative Hall studies in the electron- and hole-doped manganites La _{0.33} Ca _{0.67} MnO ₃ and La _{0.70} Ca _{0.30} MnO ₃ . <i>Physical Review B</i> , 2000, 62, 11633-11638.	1.1	22
89	Miniaturised eight-channel impedance spectroscopy unit as sensor platform for biosensor applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1357-1363.	0.8	22
90	Cross-linked degradable poly(β -thioester) networks via amine-catalyzed thiol-ene click polymerization. <i>Polymer</i> , 2014, 55, 3525-3532.	1.8	22

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91	Effect of Cholesterol on the Phase Behavior of Solid-Supported Lipid Vesicle Layers. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4985-4992.	1.2	22
92	Scaling of the transport properties in the $\text{YBa}_2\text{Cu}_3\text{O}_x$ system. <i>Physical Review B</i> , 2001, 64, .	1.1	21
93	Boron-Doped Diamond Functionalization by an Electrografting/Alkyne-Azide Click Chemistry Sequence. <i>ChemElectroChem</i> , 2014, 1, 1145-1154.	1.7	21
94	Impedimetric immunosensor for the detection of histamine based on reduced graphene oxide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1327-1334.	0.8	21
95	Nanocrystalline-diamond thin films with high pH and penicillin sensitivity prepared on a capacitive SiO_2 structure. <i>Electrochimica Acta</i> , 2009, 54, 5981-5985.	2.6	20
96	Synthetic diamond films as a platform material for label-free protein sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 520-526.	0.8	20
97	Customized impedance spectroscopy device as possible sensor platform for biosensor applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 919-923.	0.8	20
98	Electrochemical sensor array for bioprocess monitoring. <i>Electrochimica Acta</i> , 2011, 56, 9673-9678.	2.6	20
99	Determination of the extracellular acidification of <i>Escherichia coli</i> K12 with a multi-chamber-based LAPS system. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1479-1485.	0.8	20
100	ScFv-modified graphene-coated IDE-arrays for label-free™ screening of cardiovascular disease biomarkers in physiological saline. <i>Biosensors and Bioelectronics</i> , 2018, 102, 574-581.	5.3	20
101	Universal behavior of the in-plane paraconductivity of cuprate superconductors in the short-wavelength fluctuation regime. <i>Physical Review B</i> , 2002, 65, .	1.1	18
102	Light-Addressable Actuator-Sensor Platform for Monitoring and Manipulation of pH Gradients in Microfluidics: A Case Study with the Enzyme Penicillinase. <i>Biosensors</i> , 2021, 11, 171.	2.3	18
103	Spin-dependent hopping in the paramagnetic state of the bilayer manganite $(\text{La}_{0.4}\text{Pr}_{0.6})_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$. <i>Europhysics Letters</i> , 2002, 58, 285-291.	0.7	17
104	Intrinsic granularity in nanocrystalline boron-doped diamond films measured by scanning tunneling microscopy. <i>Physical Review B</i> , 2009, 80, .	1.1	17
105	Selective <i>Campylobacter</i> detection and quantification in poultry: A sensor tool for detecting the cause of a common zoonosis at its source. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129484.	4.0	17
106	Tracing Gold Nanoparticle Charge by Electrolyte-Insulator-Semiconductor Devices. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4439-4445.	1.5	16
107	Molecular imprinted polymer films on RFID tags: a first step towards disposable packaging sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 938-944.	0.8	16
108	Anisotropic In-Situ-Coated AuNPs on Screen-Printed Carbon Surface for Enhanced Prostate-Specific Antigen Impedimetric Aptasensor. <i>Journal of Electronic Materials</i> , 2017, 46, 3542-3552.	1.0	16

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109	Single-Shot Detection of Neurotransmitters in Whole-Blood Samples by Means of the Heat-Transfer Method in Combination with Synthetic Receptors. <i>Sensors</i> , 2017, 17, 2701.	2.1	16
110	Phase-slip dissipation and dimensionality above the irreversibility line in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$. <i>Physical Review B</i> , 1994, 50, 12920-12926.	1.1	15
111	Thermally activated dissipation in epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8 + \delta$ films evidence for the occurrence of vortex strings with three-dimensional fluctuations in low magnetic fields. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 234, 249-254.	0.6	15
112	Real-time study of protein adsorption on thin nanocrystalline diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2093-2098.	0.8	15
113	Analytical TEM study of CVD diamond growth on TiO_2 sol-gel layers. <i>Diamond and Related Materials</i> , 2012, 23, 93-99.	1.8	15
114	Controlled synthesis of ultrathin ZnO nanowires using micellar gold nanoparticles as catalyst templates. <i>Nanoscale</i> , 2013, 5, 7046.	2.8	15
115	From colossal magnetoresistance to solar cells: An overview on 66 years of research into perovskites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700394.	0.8	15
116	Metallization of Ultra-thin, Non-thiol SAMs with Flat-Lying Molecular Units: Pd on 1, 4-Dicyanobenzene. <i>ChemPhysChem</i> , 2010, 11, 2951-2956.	1.0	14
117	Granular superconductivity in metallic and insulating nanocrystalline boron-doped diamond thin films. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 374019.	1.3	14
118	Scalable fabrication and application of nanoscale IDE-arrays as multi-electrode platform for label-free biosensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 115-125.	4.0	14
119	Impedimetric Sensing of DNA with Silicon Nanowire Transistors as Alternative Transducer Principle. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700740.	0.8	14
120	Title is missing!. <i>Journal of Low Temperature Physics</i> , 1999, 117, 681-685.	0.6	13
121	Chinese hamster ovary cell viability on hydrogen and oxygen terminated nano- and microcrystalline diamond surfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2042-2047.	0.8	13
122	Biological modification of carbon nanowalls with DNA strands and hybridization experiments with complementary and mismatched DNA. <i>Chemical Physics Letters</i> , 2010, 485, 196-201.	1.2	13
123	Improving the sensitivity of the heat-transfer method (HTM) for cancer cell detection with optimized sensor chips. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1320-1326.	0.8	13
124	DNA detection with top-down fabricated silicon nanowire transistor arrays in linear operation regime. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1510-1519.	0.8	13
125	Towards a catheter-based impedimetric sensor for the assessment of intestinal histamine levels in IBS patients. <i>Biosensors and Bioelectronics</i> , 2020, 158, 112152.	5.3	13
126	Detection of yeast strains by combining surface-imprinted polymers with impedance-based readout. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129917.	4.0	13

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127	Enhancement of critical current density by confinement of vortices in Bi ₂ Sr ₂ CaCu ₂ O _x single crystals and thin films. <i>Applied Physics Letters</i> , 1993, 63, 2821-2823.	1.5	12
128	Concept for a solid-state multi-parameter sensor system for cell-culture monitoring. <i>Electrochimica Acta</i> , 2009, 54, 6107-6112.	2.6	12
129	Diamond and Cubic Boron Nitride: Properties, Growth and Applications. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	12
130	Monitoring of irritant gas using a whole-cell-based sensor system. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 208-217.	4.0	12
131	Characterization of biodegradable polymers with capacitive field-effect sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 2-7.	4.0	12
132	Metabolic responses of <i>Escherichia coli</i> upon glucose pulses captured by a capacitive field-effect sensor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 926-931.	0.8	12
133	Implementing heat transfer resistivity as a key element in a nanocrystalline diamond based single nucleotide polymorphism detection array. <i>Diamond and Related Materials</i> , 2013, 38, 45-51.	1.8	12
134	Ionic strength controls long-term cell-surface interactions – A QCM-D study of <i>S. cerevisiae</i> adhesion, retention and detachment. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 583-595.	5.0	12
135	Sign inversion of the high-field Hall slope in epitaxial La _{0.5} Ca _{0.5} MnO ₃ thin films. <i>Physical Review B</i> , 2003, 68, .	1.1	11
136	Negative magnetoresistance in boron-doped nanocrystalline diamond films. <i>Journal of Applied Physics</i> , 2009, 106, 033711.	1.1	11
137	A silicon-based multi-sensor chip for monitoring of fermentation processes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1364-1369.	0.8	11
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