

Chung-Chiun Liu

List of Publications by Citations

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151
papers

5,253
citations

40
h-index

65
g-index

162
ext. papers

6,059
ext. citations

7.1
avg, IF

5.96
L-index

#	Paper	IF	Citations
151	Low-temperature hydrothermal synthesis of WO ₃ nanorods and their sensing properties for NO ₂ . <i>Journal of Materials Chemistry</i> , 2012 , 22, 12643		189
150	Exploring the Trans-Cleavage Activity of CRISPR-Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17399-17405	16.4	176
149	Ultrasonic synthesis of MoO ₃ nanorods and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2012 , 174, 51-58	8.5	145
148	Bimetallic PtM (M=Pt, Ir) nanoparticle decorated multi-walled carbon nanotube enzyme-free, mediator-less amperometric sensor for H ₂ O ₂ . <i>Biosensors and Bioelectronics</i> , 2012 , 33, 120-7	11.8	142
147	Different morphologies of ZnO nanorods and their sensing property. <i>Sensors and Actuators B: Chemical</i> , 2010 , 146, 129-137	8.5	142
146	Nano-crystalline tungsten oxide NO ₂ sensor. <i>Sensors and Actuators B: Chemical</i> , 2003 , 94, 343-351	8.5	123
145	Electron-transfer reactions at the plasma-liquid interface. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17582-5	16.4	116
144	Fabrication and application of amperometric glucose biosensor based on a novel PtPd bimetallic nanoparticle decorated multi-walled carbon nanotube catalyst. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 75-81	11.8	114
143	Application of nano-crystalline porous tin oxide thin film for CO sensing. <i>Sensors and Actuators B: Chemical</i> , 1998 , 52, 188-194	8.5	111
142	Mechanism enhancing gas sensing and first-principle calculations of Al-doped ZnO nanostructures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11335	13	110
141	Quantum-sized ZnO nanoparticles: Synthesis, characterization and sensing properties for NO ₂ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 12288		109
140	Effect of MnO Phase Structure on the Oxidative Reactivity toward Bisphenol A Degradation. <i>Environmental Science & Technology</i> , 2018 , 52, 11309-11318	10.3	107
139	Preparation and characterization of three dimensional graphene foam supported platinum-ruthenium bimetallic nanocatalysts for hydrogen peroxide based electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 1-7	11.8	104
138	Synthesis of ZnO@SnO ₂ nanocomposites by microemulsion and sensing properties for NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 360-366	8.5	104
137	Improvement of TiO ₂ photocatalytic properties under visible light by WO ₃ /TiO ₂ and MoO ₃ /TiO ₂ composites. <i>Applied Surface Science</i> , 2015 , 338, 61-68	6.7	102
136	Effects of MnO ₂ of different structures on activation of peroxymonosulfate for bisphenol A degradation under acidic conditions. <i>Chemical Engineering Journal</i> , 2019 , 370, 906-915	14.7	98
135	Three Dimensional PtRh Alloy Porous Nanostructures: Tuning the Atomic Composition and Controlling the Morphology for the Application of Direct Methanol Fuel Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 3570-3575	15.6	96

134	An amperometric uric acid biosensor based on modified Ir-C electrode. <i>Biosensors and Bioelectronics</i> , 2006 , 22, 482-8	11.8	90
133	Recent Advances on Electrochemical Biosensing Strategies toward Universal Point-of-Care Systems. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12355-12368	16.4	87
132	Intrinsic characteristic and mechanism in enhancing H ₂ S sensing of Cd-doped β -MoO ₃ nanobelts. <i>Sensors and Actuators B: Chemical</i> , 2014 , 204, 754-762	8.5	82
131	Sensing performance and mechanism of Fe-doped ZnO microflowers. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 657-666	8.5	75
130	Facile preparation of polypyrrole-reduced graphene oxide hybrid for enhancing NH ₃ sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 658-664	8.5	73
129	Synthesis of 1-dimensional ZnO and its sensing property for CO. <i>Sensors and Actuators B: Chemical</i> , 2010 , 143, 620-628	8.5	71
128	Preparation, characterization and gas-sensing properties of SnO ₂ /In ₂ O ₃ nanocomposite oxides. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 316-321	8.5	69
127	Bimetallic Pt/M (M = Cu, Ni, Pd, and Rh) nanoporous for H ₂ O ₂ based amperometric biosensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 179, 209-214	8.5	65
126	Surface functionalization of Co ₃ O ₄ hollow spheres with ZnO nanoparticles for modulating sensing properties of formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 359-368	8.5	62
125	Surpassing the detection limit and accuracy of the electrochemical DNA sensor through the application of CRISPR Cas systems. <i>Biosensors and Bioelectronics</i> , 2020 , 155, 112100	11.8	61
124	Methane gas-sensing and catalytic oxidation activity of SnO ₂ /In ₂ O ₃ nanocomposites incorporating TiO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 7-12	8.5	59
123	Three dimensional graphene foam supported platinum/ Ruthenium bimetallic nanocatalysts for direct methanol and direct ethanol fuel cell applications. <i>Journal of Power Sources</i> , 2014 , 256, 329-335	8.9	56
122	Size-selective recognition of catecholamines by molecular imprinting on silica-alumina gel. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 901-7	11.8	56
121	Carbon Felt Coated with Titanium Dioxide/Carbon Black Composite as Negative Electrode for Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1132-A1138	3.9	52
120	Development of a molecular imprinting thick film electrochemical sensor for cholesterol detection. <i>Sensors and Actuators B: Chemical</i> , 2005 , 110, 204-208	8.5	52
119	Intrinsic sensing properties of the flower-like ZnO nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 747-754	8.5	51
118	Development of a screen-printed cholesterol biosensor: Comparing the performance of gold and platinum as the working electrode material and fabrication using a self-assembly approach. <i>Sensors and Actuators B: Chemical</i> , 2007 , 120, 417-425	8.5	50
117	An iridium nanoparticles dispersed carbon based thick film electrochemical biosensor and its application for a single use, disposable glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 106-113	8.5	50

116	Sn/In/Ti nanocomposite sensor for CH ₄ detection. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 1-6	8.5	49
115	Development of chemical sensors using microfabrication and micromachining techniques. <i>Sensors and Actuators B: Chemical</i> , 1993 , 13, 1-6	8.5	48
114	Facile preparation of SnO ₂ /NiO composites and enhancement of sensing performance to NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2017 , 249, 22-29	8.5	47
113	A single-use, disposable iridium-modified electrochemical biosensor for fructosyl valine for the glycosylated hemoglobin detection. <i>Sensors and Actuators B: Chemical</i> , 2009 , 137, 235-238	8.5	47
112	Flexible nerve stimulation electrode with iridium oxide sputtered on liquid crystal polymer. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 6-14	5	42
111	Pt/Au core/shell nanorods: preparation and applications as electrocatalysts for fuel cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4641		39
110	A solid polymer electrolyte-bases electrochemical carbon monoxide sensor. <i>Sensors and Actuators B: Chemical</i> , 1994 , 17, 165-168	8.5	39
109	Monodisperse AuM (M=Pd, Rh, Pt) bimetallic nanocrystals for enhanced electrochemical detection of H ₂ O ₂ . <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 404-412	8.5	37
108	Synthesis of quantum size ZnO crystals and their gas sensing properties for NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2011 , 159, 97-102	8.5	37
107	The detection of alkaline phosphatase using an electrochemical biosensor in a single-step approach. <i>Sensors</i> , 2009 , 9, 8709-21	3.8	37
106	Novel Fe ₂ O ₃ /BiVO ₄ heterojunctions for enhancing NO ₂ sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 136-143	8.5	36
105	A Single-Use, In Vitro Biosensor for the Detection of T-Tau Protein, A Biomarker of Neuro-Degenerative Disorders, in PBS and Human Serum Using Differential Pulse Voltammetry (DPV). <i>Biosensors</i> , 2017 , 7,	5.9	36
104	A flexible sensor based on polyaniline hybrid using ZnO as template and sensing properties to triethylamine at room temperature. <i>Applied Surface Science</i> , 2017 , 399, 583-591	6.7	35
103	A thick-film multiple component cathode three-electrode oxygen sensor. <i>IEEE Transactions on Biomedical Engineering</i> , 1986 , 33, 108-12	5	34
102	Construction of NiO@ZnSnO ₃ hierarchical microspheres decorated with NiO nanosheets for formaldehyde sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 908-916	8.5	34
101	Synthesis of Co ₃ O ₄ /TiO ₂ composite by pyrolyzing ZIF-67 for detection of xylene. <i>Applied Surface Science</i> , 2018 , 435, 384-392	6.7	33
100	Highly sensitive electrochemical analysis of tunnel structured MnO ₂ nanoparticle-based sensors on the oxidation of nitrite. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 746-750	8.5	33
99	Development of a hypoxanthine biosensor based on immobilized xanthine oxidase chemically modified electrode. <i>Electroanalysis</i> , 1997 , 9, 372-377	3	32

98	Development of a silicon-based yttria-stabilized-zirconia (YSZ), amperometric oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , 2002 , 85, 212-218	8.5	32
97	Strand Displacement Strategies for Biosensor Applications. <i>Trends in Biotechnology</i> , 2019 , 37, 1367-1382	5.1	31
96	Reverse microemulsion in situ crystallizing growth of ZnO nanorods and application for NO ₂ sensor. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 760-767	8.5	31
95	Recent Advances on Electrochemical Biosensing Strategies toward Universal Point-of-Care Systems. <i>Angewandte Chemie</i> , 2019 , 131, 12483-12496	3.6	30
94	Amperometric acetylcholine sensor catalyzed by nickel anode electrode. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 9-14	11.8	30
93	Silicon based microfabricated tin oxide gas sensor incorporating use of Hall effect measurement. <i>Sensors and Actuators B: Chemical</i> , 2001 , 81, 25-31	8.5	30
92	Facile synthesis of BiMoO ₃ nanorods with high sensitivity to CO and intrinsic sensing performance. <i>Materials Research Bulletin</i> , 2015 , 64, 252-256	5.1	29
91	Preparation of reduced graphene oxide/Co ₃ O ₄ composites and sensing performance to toluene at low temperature. <i>RSC Advances</i> , 2016 , 6, 60109-60116	3.7	29
90	Improvement of Amperometric Biosensor Performance for H ₂ O ₂ Detection based on Bimetallic PtM (M = Ru, Au, and Ir) Nanoparticles. <i>International Journal of Electrochemistry</i> , 2012 , 2012, 1-8	2.4	29
89	Development of a NASICON-based amperometric carbon dioxide sensor. <i>Sensors and Actuators B: Chemical</i> , 2000 , 62, 30-34	8.5	29
88	Bimetallic catalyst of PtIr nanoparticles with high electrocatalytic ability for hydrogen peroxide oxidation. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 55-60	8.5	28
87	Detection of triglyceride using an iridium nano-particle catalyst based amperometric biosensor. <i>Analyst, The</i> , 2008 , 133, 1757-63	5	27
86	An electrochemical biosensor of the ketone 3- β -hydroxybutyrate for potential diabetic patient management. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 818-825	8.5	26
85	Single-Use Disposable Electrochemical Label-Free Immunosensor for Detection of Glycated Hemoglobin (HbA _{1c}) Using Differential Pulse Voltammetry (DPV). <i>Sensors</i> , 2016 , 16,	3.8	26
84	Detection of Phenylketonuria Markers Using a ZIF-67 Encapsulated PtPd Alloy Nanoparticle (PtPd@ZIF-67)-Based Disposable Electrochemical Microsensor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20734-20742	9.5	25
83	Application of bioconjugation chemistry on biosensor fabrication for detection of TAR-DNA binding protein 43. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 60-67	11.8	25
82	Integrated Pt ₂ Ni alloy@Pt core-shell nanoarchitectures with high electrocatalytic activity for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11400	13	25
81	Detection of 17 β -Estradiol in Environmental Samples and for Health Care Using a Single-Use, Cost-Effective Biosensor Based on Differential Pulse Voltammetry (DPV). <i>Biosensors</i> , 2017 , 7,	5.9	25

80	Solar-light photoamperometric and photocatalytic properties of quasi-transparent TiO ₂ nanoporous thin films. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3075-82	9.5	23
79	Novel Carbon Dioxide Microsensor Based on Tin Oxide Nanomaterial Doped With Copper Oxide. <i>IEEE Sensors Journal</i> , 2009 , 9, 235-236	4	22
78	Facile fabrication of 3D layer-by-layer graphene-gold nanorod hybrid architecture for hydrogen peroxide based electrochemical biosensor. <i>Sensing and Bio-Sensing Research</i> , 2015 , 3, 7-11	3.3	20
77	Dendritic platinum-decorated gold nanoparticles for non-enzymatic glucose biosensing. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5925-5932	7.3	20
76	A thick-film sensor as a novel device for determination of polyphenols and their antioxidant capacity in white wine. <i>Sensors</i> , 2010 , 10, 1670-8	3.8	20
75	Detection of Alpha-Methylacyl-CoA Racemase (AMACR), a Biomarker of Prostate Cancer, in Patient Blood Samples Using a Nanoparticle Electrochemical Biosensor. <i>Biosensors</i> , 2012 , 2, 377-87	5.9	19
74	Determination of total bile acid levels using a thick-film screen-printed Ir/C sensor for the detection of liver disease. <i>Analyst, The</i> , 2009 , 134, 973-9	5	19
73	Electrochemical oxidation of L-ascorbic acid at the graphite electrode and its monitoring by a thick-film graphite sensor assembly. <i>Electroanalysis</i> , 1992 , 4, 191-197	3	19
72	A Cuprous Oxide Thin Film Non-Enzymatic Glucose Sensor Using Differential Pulse Voltammetry and Other Voltammetry Methods and a Comparison to Different Thin Film Electrodes on the Detection of Glucose in an Alkaline Solution. <i>Biosensors</i> , 2018 , 8,	5.9	18
71	Quantum-sized ZnO nanoparticles synthesized in aqueous medium for toxic gases detection. <i>Journal of Alloys and Compounds</i> , 2012 , 539, 205-209	5.7	18
70	Smart Sensor Systems. <i>Electrochemical Society Interface</i> , 2010 , 19, 29-34	3.6	18
69	A New Class of Low-Temperature Plasma-Activated, Inorganic Salt-Based Particle-Free Inks for Inkjet Printing Metals. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900119	6.8	17
68	Micro and nano scale metal oxide hollow particles produced by spray precipitation in a liquid-liquid system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 359, 24-30	5.3	17
67	Recent Developments of Electrochemical and Optical Biosensors for Antibody Detection. <i>International Journal of Molecular Sciences</i> , 2019 , 21,	6.3	17
66	Neutral Charged Immunosensor Platform for Protein-based Biomarker Analysis with Enhanced Sensitivity. <i>ACS Sensors</i> , 2019 , 4, 161-169	9.2	17
65	Exploring the Trans-Cleavage Activity of CRISPR-Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. <i>Angewandte Chemie</i> , 2019 , 131, 17560-17566	3.6	16
64	Highly effective and specific way for the trace analysis of carbaryl insecticides based on Au ₄₂ Rh ₅₈ alloy nanocrystals. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7064-7071	13	15
63	Sonochemical synthesis of hierarchically assembled tungsten oxides with excellent NO ₂ -sensing properties. <i>Materials Letters</i> , 2013 , 111, 32-34	3.3	15

62	Determination of alanine aminotransferase with an electrochemical nano ir-C biosensor for the screening of liver diseases. <i>Biosensors</i> , 2011 , 1, 107-17	5.9	15
61	Development of a solid-state thick film calcium ion-selective electrode. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 709-716	8.5	15
60	Development and Characterization of a Thick-Film Printed Zinc-Alkaline Battery. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A922	3.9	15
59	Microfabricated thin-film microelectrode for amperometric determination of CO ₂ in the gas phase. <i>Sensors and Actuators B: Chemical</i> , 1994 , 21, 101-108	8.5	15
58	A Simple, Cost-Effective Sensor for Detecting Lead Ions in Water Using Under-Potential Deposited Bismuth Sub-Layer with Differential Pulse Voltammetry (DPV). <i>Sensors</i> , 2017 , 17,	3.8	14
57	Development of chemical sensors using microfabrication and micromachining techniques. <i>Materials Chemistry and Physics</i> , 1995 , 42, 87-90	4.4	14
56	NiO hierarchical hollow microspheres doped Fe to enhance triethylamine sensing properties. <i>Materials Letters</i> , 2018 , 210, 305-308	3.3	13
55	Fabrication of Ir nanoparticle-based biosensors by plasma electrochemical reduction for enzyme-free detection of hydrogen peroxide. <i>Catalysis Today</i> , 2013 , 211, 137-142	5.3	13
54	Humidity effects on the stability of a solid polymer electrolyte oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , 1993 , 10, 133-136	8.5	13
53	An Integrated Multi-Function Heterogeneous Biochemical Circuit for High-Resolution Electrochemistry-Based Genetic Analysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20545-20551	16.4	13
52	Detection of lipoprotein-associated phospholipase A2 using a nano-iridium particle catalyst-based biosensor. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 993-999	8.5	12
51	In Vitro Quantified Determination of β Amyloid 42 Peptides, a Biomarker of Neuro-Degenerative Disorders, in PBS and Human Serum Using a Simple, Cost-Effective Thin Gold Film Biosensor. <i>Biosensors</i> , 2017 , 7,	5.9	11
50	Electrochemical based biosensors. <i>Biosensors</i> , 2012 , 2, 269-72	5.9	11
49	Non-invasive, real-time and dynamic monitoring of CO ₂ and O ₂ simultaneously using modulated potential pulse-amperometry/coulometry. <i>Sensors and Actuators B: Chemical</i> , 1998 , 52, 219-225	8.5	11
48	Electrochemical characterization and in vivo biocompatibility of a thick-film printed sensor for continuous in vivo monitoring. <i>IEEE Sensors Journal</i> , 2005 , 5, 1147-1158	4	11
47	A thick-film calorimetric sensor for monitoring the concentration of combustible gases. <i>Sensors and Actuators</i> , 1989 , 19, 237-248		11
46	A Pd-PdO film potentiometric pH sensor. <i>IEEE Transactions on Biomedical Engineering</i> , 1986 , 33, 113-6	5	11
45	Nanoparticle based simple electrochemical biosensor platform for profiling of protein-nucleic acid interactions. <i>Talanta</i> , 2019 , 195, 46-54	6.2	11

44	Bioconjugated, Single-Use Biosensor for the Detection of Biomarkers of Prostate Cancer. <i>ACS Omega</i> , 2018 , 3, 6411-6418	3.9	10
43	Bimetallic Pt-Ru Nanoparticle Catalyst for Hydrogen Peroxide Detection. <i>Journal of Nanotechnology</i> , 2011 , 2011, 1-6	3.5	10
42	A calorimetric combustible gas detector employing platinum film heaters. <i>Sensors and Actuators B: Chemical</i> , 1993 , 12, 91-94	8.5	10
41	Cyclic voltammetric study of glucose oxidation on an oxide-covered platinum electrode in the presence of an underpotential-deposited thallium layer. <i>Bioelectrochemistry</i> , 1987 , 17, 59-70		10
40	Gas Sensing Properties of Quantum-Sized ZnO Nanoparticles for NO_2 . <i>IEEE Sensors Journal</i> , 2012 , 12, 1234-1238	4	9
39	Amperometric sensor for fish freshness based on immobilized multi-enzyme modified electrode. <i>Electroanalysis</i> , 1997 , 9, 1229-1233	3	9
38	An electrochemical tyrosinase-immobilized biosensor for albumin toward a potential total protein measurement. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 357-363	8.5	9
37	Pt ₃₅ Cu ₆₅ nanoarchitecture: a highly durable and effective electrocatalyst towards methanol oxidation. <i>Nanotechnology</i> , 2015 , 26, 135706	3.4	8
36	Applications of microfabrication and micromachining techniques to biotechnology. <i>Trends in Biotechnology</i> , 1997 , 15, 213-216	15.1	8
35	. <i>IEEE Sensors Journal</i> , 2006 , 6, 187-202	4	8
34	Studies on the biomedical sensor techniques for real-time and dynamic monitoring of respiratory gases, CO ₂ and O ₂ . <i>Sensors and Actuators B: Chemical</i> , 2000 , 65, 35-38	8.5	8
33	pH measurements based on a palladium electrode. <i>Electroanalysis</i> , 1994 , 6, 245-249	3	8
32	Applications of microfabrication techniques in electrochemical sensor development. <i>Applied Biochemistry and Biotechnology</i> , 1993 , 41, 99-107	3.2	8
31	Chemical Microsensors. <i>Electrochemical Society Interface</i> , 2004 , 13, 22-27	3.6	8
30	Immunoglobulin G-Based Steric Hindrance Assay for Protein Detection. <i>ACS Sensors</i> , 2020 , 5, 140-146	9.2	8
29	Advanced fabrication of biosensor on detection of Glypican-1 using S-Acetylmercaptosuccinic anhydride (SAMSA) modification of antibody. <i>Scientific Reports</i> , 2018 , 8, 13541	4.9	8
28	Ab initio calculations of surface electronic states in indium oxide. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 1902-1906	2.1	7
27	Microfabricated thin film impedance sensor & AC impedance measurements. <i>Sensors</i> , 2010 , 10, 5845-58	3.8	7

26	Electromotive Force Investigation of the Bismuth-Tellurium System. <i>Journal of the Electrochemical Society</i> , 1969 , 116, 1054	3.9	7
25	Effects of Second Metal Oxides on Surface-Mediated Reduction of Contaminants by Fe(II) with Iron Oxide. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 680-687	3.2	6
24	Dynamic Control of Peptide Strand Displacement Reaction Using Functional Biomolecular Domain for Biosensing. <i>ACS Sensors</i> , 2019 , 4, 1980-1985	9.2	6
23	Thin film trichloroethylene electrochemical sensor. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 25-32	11.8	6
22	Effect of Calcination Temperature on NO_2 Sensing Properties for Quantum Size ZnO Crystals. <i>IEEE Sensors Journal</i> , 2012 , 12, 1122-1126	4	5
21	Development of an electrochemical-based aspartate aminotransferase nanoparticle ir-C biosensor for screening of liver diseases. <i>Biosensors</i> , 2012 , 2, 234-44	5.9	5
20	Enzymatic determination of diglyceride using an iridium nano-particle based single use, disposable biosensor. <i>Sensors</i> , 2010 , 10, 5758-73	3.8	5
19	Thick-Film Carbon Dioxide Sensor via Anodic Adsorbate Stripping Technique and Its Structural Dependence. <i>Sensors</i> , 2009 , 9, 7203-16	3.8	5
18	A bienzyme sensor for the determination of hypoxanthine and inosine. <i>Electroanalysis</i> , 1997 , 9, 1174-1179	3.9	5
17	A pH sensor constructed with two types of optical fibers: the configuration and the initial results. <i>Sensors and Actuators B: Chemical</i> , 1993 , 10, 155-159	8.5	5
16	Development of a solid electrolyte sensor for oxygen in hot gases. <i>Sensors and Actuators B: Chemical</i> , 1991 , 3, 15-22	8.5	4
15	A Thin Film Solid State Microbattery for Use in Powering Microsensors. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 210, 31		4
14	An optical fiber temperature sensor using a thermochromic solution. <i>Sensors and Actuators A: Physical</i> , 1990 , 24, 213-216	3.9	4
13	The electrochemical fluorination of acetyl fluoride. <i>Journal of Fluorine Chemistry</i> , 1987 , 35, 557-569	2.1	4
12	Phase-Regulated Sensing Mechanism of MoS Based Nanohybrids toward Point-of-Care Prostate Cancer Diagnosis. <i>Small</i> , 2020 , 16, e2000307	11	3
11	Development of a dimethyl ether (DME) sensor using platinum nanoparticles and thick-film printing. <i>Biosensors and Bioelectronics</i> , 2006 , 22, 501-5	11.8	3
10	Potentiometric response of PVC/crown ether membrane electrodes to nonionic organic compounds. <i>Sensors and Actuators B: Chemical</i> , 1991 , 5, 171-172	8.5	2
9	Amperometric determination of carbon dioxide using a gold electrode modified by the underpotential-deposited cadmium. <i>Electroanalysis</i> , 1990 , 2, 367-372	3	2

8	Electrochemical generation of ATP: A suggested experimental approach. <i>Journal of Molecular Catalysis</i> , 1980 , 8, 475-478		2
7	Trimetallic (aurod-pdshell-ptcluster) catalyst used as amperometric hydrogen peroxide sensor. <i>Biosensors</i> , 2014 , 4, 461-71	5.9	1
6	Detection of Adenosine Deaminase Activity with a Thick-Film Screen-Printed Ir/C Sensor to Detect Liver Disease. <i>Journal of the Electrochemical Society</i> , 2010 , 157, J130	3.9	1
5	A Planar-Structure Electrochemical Methanol Sensor for Direct Methanol Fuel Cells Applications. <i>Journal of the Electrochemical Society</i> , 2006 , 153, H138	3.9	1
4	An Integrated Multi-Function Heterogeneous Biochemical Circuit for High-Resolution Electrochemistry-Based Genetic Analysis. <i>Angewandte Chemie</i> , 2020 , 132, 20726-20732	3.6	1
3	Innentitelbild: An Integrated Multi-Function Heterogeneous Biochemical Circuit for High-Resolution Electrochemistry-Based Genetic Analysis (Angew. Chem. 46/2020). <i>Angewandte Chemie</i> , 2020 , 132, 20426-20426	3.6	
2	Three-Dimensional Graphene Bimetallic Nanocatalysts Foam for Energy Storage and Biosensing	277-324	
1	Innentitelbild: Exploring the Trans-Cleavage Activity of CRISPR-Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor (Angew. Chem. 48/2019). <i>Angewandte Chemie</i> , 2019 , 131, 17242-17242	3.6	