

Adriano Ambrosi

List of Publications by Year in descending order

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137
papers

14,555
citations

23544

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18633

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149
docs citations

149
times ranked

18791
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid electrochemical detection of COVID-19 genomic sequence with dual-function graphene nanocolloids based biosensor. <i>FlatChem</i> , 2022, 32, 100336.	2.8	30
2	Electroactive nanocarbon materials as signaling tags for electrochemical PCR. <i>Talanta</i> , 2022, 245, 123479.	2.9	2
3	Electrochemical Biosensor with Enhanced Antifouling Capability for COVID-19 Nucleic Acid Detection in Complex Biological Media. <i>Analytical Chemistry</i> , 2021, 93, 5963-5971.	3.2	102
4	Functionalized Germanene-Based Nanomaterials for the Detection of Single Nucleotide Polymorphism. <i>ACS Applied Nano Materials</i> , 2021, 4, 5164-5175.	2.4	17
5	Precise Control of Diazirine Reduction to Tune the Mechanical Properties of Electrocurving Adhesives. <i>ChemElectroChem</i> , 2021, 8, 2715-2725.	1.7	1
6	How 3D printing can boost advances in analytical and bioanalytical chemistry. <i>Mikrochimica Acta</i> , 2021, 188, 265.	2.5	21
7	Electrochemically driven multi-material 3D-printing. <i>Applied Materials Today</i> , 2020, 18, 100530.	2.3	21
8	3D-printing for electrolytic processes and electrochemical flow systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21902-21929.	5.2	37
9	3D printing for aqueous and non-aqueous redox flow batteries. <i>Current Opinion in Electrochemistry</i> , 2020, 20, 28-35.	2.5	28
10	Electronics charges into the third dimension. <i>Nature Electronics</i> , 2020, 3, 189-190.	18.1	0
11	Self-Propelled 3D-Printed "Aircraft Carrier" of Light-Powered Smart Micromachines for Large-Volume Nitroaromatic Explosives Removal. <i>Advanced Functional Materials</i> , 2019, 29, 1903872.	7.8	40
12	Smart Robots: Self-Propelled 3D-Printed "Aircraft Carrier" of Light-Powered Smart Micromachines for Large-Volume Nitroaromatic Explosives Removal (<i>Adv. Funct. Mater.</i> 39/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970267.	7.8	2
13	3D-Printed Electrodes for Sensing of Biologically Active Molecules. <i>Electroanalysis</i> , 2018, 30, 1319-1326.	1.5	50
14	Additive manufacturing of electrochemical interfaces: Simultaneous detection of biomarkers. <i>Applied Materials Today</i> , 2018, 12, 43-50.	2.3	36
15	Self-Contained Polymer/Metal 3D Printed Electrochemical Platform for Tailored Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1700655.	7.8	98
16	Electrochemical Exfoliation of MoS ₂ Crystal for Hydrogen Electrogenation. <i>Chemistry - A European Journal</i> , 2018, 24, 18551-18555.	1.7	42
17	Multimaterial 3D-Printed Water Electrolyzer with Earth-Abundant Electrodeposited Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16968-16975.	3.2	61
18	Covalent Functionalization of Exfoliated Arsenic with Chlorocarbene. <i>Angewandte Chemie</i> , 2018, 130, 15053-15056.	1.6	4

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19	Covalent Functionalization of Exfoliated Arsenic with Chlorocarbene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14837-14840.	7.2	23
20	Exfoliation of layered materials using electrochemistry. <i>Chemical Society Reviews</i> , 2018, 47, 7213-7224.	18.7	140
21	Functional Nanosheet Synthons by Covalent Modification of Transition-Metal Dichalcogenides. <i>Chemistry of Materials</i> , 2017, 29, 2066-2073.	3.2	56
22	Chemically Reduced Graphene Oxide for the Assessment of Food Quality: How the Electrochemical Platform Should Be Tailored to the Application. <i>Chemistry - A European Journal</i> , 2017, 23, 1930-1936.	1.7	7
23	Detection of Amphipathic Viral Peptide on Screen-Printed Electrodes by Liposome Rupture Impact Voltammetry. <i>Analytical Chemistry</i> , 2017, 89, 11753-11757.	3.2	7
24	3D-Printed Metal Electrodes for Heavy Metals Detection by Anodic Stripping Voltammetry. <i>Electroanalysis</i> , 2017, 29, 2444-2453.	1.5	67
25	3D Printed Electrodes for Detection of Nitroaromatic Explosives and Nerve Agents. <i>Analytical Chemistry</i> , 2017, 89, 8995-9001.	3.2	73
26	3D-printed metal electrodes for electrochemical detection of phenols. <i>Applied Materials Today</i> , 2017, 9, 212-219.	2.3	59
27	Electrochemical Exfoliation of Layered Black Phosphorus into Phosphorene. <i>Angewandte Chemie</i> , 2017, 129, 10579-10581.	1.6	56
28	Electrochemical Exfoliation of Layered Black Phosphorus into Phosphorene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10443-10445.	7.2	228
29	Layered Platinum Dichalcogenides (PtS ₂ , PtSe ₂ , and PtTe ₂) Electrocatalysis: Monotonic Dependence on the Chalcogen Size. <i>Advanced Functional Materials</i> , 2016, 26, 4306-4318.	7.8	228
30	Helical 3D-Printed Metal Electrodes as Custom-Shaped 3D Platform for Electrochemical Devices. <i>Advanced Functional Materials</i> , 2016, 26, 698-703.	7.8	168
31	Exfoliation of Layered Topological Insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ via Electrochemistry. <i>ACS Nano</i> , 2016, 10, 11442-11448.	7.3	97
32	Electrochemically Exfoliated Graphene and Graphene Oxide for Energy Storage and Electrochemistry Applications. <i>Chemistry - A European Journal</i> , 2016, 22, 153-159.	1.7	235
33	3D-printing technologies for electrochemical applications. <i>Chemical Society Reviews</i> , 2016, 45, 2740-2755.	18.7	775
34	Templated Electrochemical Fabrication of Hollow Molybdenum Sulfide Microstructures and Nanostructures with Catalytic Properties for Hydrogen Production. <i>ACS Catalysis</i> , 2016, 6, 3985-3993.	5.5	80
35	Graphene and its electrochemistry – an update. <i>Chemical Society Reviews</i> , 2016, 45, 2458-2493.	18.7	366
36	Improving the Analytical Performance of Graphene Oxide towards the Assessment of Polyphenols. <i>Chemistry - A European Journal</i> , 2016, 22, 3830-3834.	1.7	25

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37	Electrocatalysis of layered Group 5 metallic transition metal dichalcogenides (MX_2 , M = Tj ETQq1 1 0,784314 rgBT /Ove	5.2	218
38	Nitroaromatic explosives detection using electrochemically exfoliated graphene. Scientific Reports, 2016, 6, 33276.	1.6	59
39	Phenols as probes of chemical composition of graphene oxide. Physical Chemistry Chemical Physics, 2016, 18, 30515-30519.	1.3	7
40	3D Printing: Helical 3D-Printed Metal Electrodes as Custom-Shaped 3D Platform for Electrochemical Devices (Adv. Funct. Mater. 5/2016). Advanced Functional Materials, 2016, 26, 803-803.	7.8	2
41	Layered rhenium sulfide on free-standing three-dimensional electrodes is highly catalytic for the hydrogen evolution reaction: Experimental and theoretical study. Electrochemistry Communications, 2016, 63, 39-43.	2.3	54
42	Anti-MoS ₂ Nanostructures: Ti ₂ S and Its Electrochemical and Electronic Properties. ACS Nano, 2016, 10, 112-123.	7.3	18
43	Metallic 1Tâ€WS ₂ for Selective Impedimetric Vapor Sensing. Advanced Functional Materials, 2015, 25, 5611-5616.	7.8	122
44	Pristine Basalâ€and Edgeâ€Planeâ€Oriented Molybdenite MoS ₂ Exhibiting Highly Anisotropic Properties. Chemistry - A European Journal, 2015, 21, 7170-7178.	1.7	133
45	Enhancement of electrochemical and catalytic properties of MoS ₂ through ball-milling. Electrochemistry Communications, 2015, 54, 36-40.	2.3	51
46	Molybdenum Disulfide: Lithium Intercalation Compound Dramatically Influences the Electrochemical Properties of Exfoliated MoS ₂ (Small 5/2015). Small, 2015, 11, 604-604.	5.2	3
47	Graphene and carbon quantum dots electrochemistry. Electrochemistry Communications, 2015, 52, 75-79.	2.3	103
48	A limited anodic and cathodic potential window of MoS ₂ : limitations in electrochemical applications. Nanoscale, 2015, 7, 3126-3129.	2.8	35
49	Thiofluorographeneâ€Hydrophilic Graphene Derivative with Semiconducting and Genosensing Properties. Advanced Materials, 2015, 27, 2305-2310.	11.1	84
50	Catalytic and Charge Transfer Properties of Transition Metal Dichalcogenides Arising from Electrochemical Pretreatment. ACS Nano, 2015, 9, 5164-5179.	7.3	184
51	The dopant type and amount governs the electrochemical performance of graphene platforms for the antioxidant activity quantification. Nanoscale, 2015, 7, 9040-9045.	2.8	19
52	Impact electrochemistry of individual molybdenum nanoparticles. Electrochemistry Communications, 2015, 56, 16-19.	2.3	27
53	2H â†’ 1T phase transition and hydrogen evolution activity of MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂ strongly depends on the MX ₂ composition. Chemical Communications, 2015, 51, 8450-8453.	2.2	565
54	Transition metal dichalcogenides (MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂) exfoliation technique has strong influence upon their capacitance. Electrochemistry Communications, 2015, 56, 24-28.	2.3	129

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55	Graphene: Thiofluorographeneâ€“Hydrophilic Graphene Derivative with Semiconducting and Genosensing Properties (Adv. Mater. 14/2015). Advanced Materials, 2015, 27, 2407-2407.	11.1	4
56	The Structural Stability of Graphene Anticorrosion Coating Materials is Compromised at Low Potentials. Chemistry - A European Journal, 2015, 21, 7896-7901.	1.7	33
57	Electrochemistry of Nanostructured Layered Transition-Metal Dichalcogenides. Chemical Reviews, 2015, 115, 11941-11966.	23.0	719
58	Labeling Graphene Oxygen Groups with Europium. ChemPhysChem, 2015, 16, 331-334.	1.0	3
59	Lithium Intercalation Compound Dramatically Influences the Electrochemical Properties of Exfoliated MoS ₂ . Small, 2015, 11, 605-612.	5.2	250
60	Electrochemistry of Transition Metal Dichalcogenides: Strong Dependence on the Metal-to-Chalcogen Composition and Exfoliation Method. ACS Nano, 2014, 8, 12185-12198.	7.3	288
61	Redox reaction of p-aminophenol at carbon nanotube electrodes is accelerated by carbonaceous impurities. Electrochemistry Communications, 2014, 38, 1-3.	2.3	9
62	Simultaneous Electrochemical Detection of Silver and Molybdenum Nanoparticles. ChemElectroChem, 2014, 1, 529-531.	1.7	5
63	Fluorographites (CF _x) _n Exhibit Improved Heterogeneous Electronâ€“Transfer Rates with Increasing Level of Fluorination: Towards the Sensing of Biomolecules. Chemistry - A European Journal, 2014, 20, 6665-6671.	1.7	46
64	Layered transition metal dichalcogenides for electrochemical energy generation and storage. Journal of Materials Chemistry A, 2014, 2, 8981-8987.	5.2	552
65	Oxidation Debris in Graphene Oxide Is Responsible for Its Inherent Electroactivity. ACS Nano, 2014, 8, 4197-4204.	7.3	77
66	The CVD graphene transfer procedure introduces metallic impurities which alter the graphene electrochemical properties. Nanoscale, 2014, 6, 472-476.	2.8	138
67	Molybdenum disulfide (MoS ₂) nanoflakes as inherently electroactive labels for DNA hybridization detection. Nanoscale, 2014, 6, 11971-11975.	2.8	98
68	Chemical Preparation of Graphene Materials Results in Extensive Unintentional Doping with Heteroatoms and Metals. Chemistry - A European Journal, 2014, 20, 15760-15767.	1.7	39
69	Precise Tuning of the Charge Transfer Kinetics and Catalytic Properties of MoS ₂ Materials via Electrochemical Methods. Chemistry - A European Journal, 2014, 20, 17426-17432.	1.7	73
70	Electrochemical tuning of oxygen-containing groups on graphene oxides: towards control of the performance for the analysis of biomarkers. Physical Chemistry Chemical Physics, 2014, 16, 12178-12182.	1.3	16
71	Electron transfer properties of chemically reduced graphene materials with different oxygen contents. Journal of Materials Chemistry A, 2014, 2, 10668-10675.	5.2	64
72	Towards electrochemical purification of chemically reduced graphene oxide from redox accessible impurities. Physical Chemistry Chemical Physics, 2014, 16, 7058-7065.	1.3	14

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73	CVD graphene based immunosensor. RSC Advances, 2014, 4, 23952-23956.	1.7	14
74	Clean room-free rapid fabrication of roll-up self-powered catalytic microengines. Journal of Materials Chemistry A, 2014, 2, 1219-1223.	5.2	22
75	Magnetic control of electrochemical processes at electrode surface using iron-rich graphene materials with dual functionality. Nanoscale, 2014, 6, 7391-7396.	2.8	13
76	Capacitance of p- and n-Doped Graphenes is Dominated by Structural Defects Regardless of the Dopant Type. ChemSusChem, 2014, 7, 1102-1106.	3.6	45
77	3D-graphene for electrocatalysis of oxygen reduction reaction: Increasing number of layers increases the catalytic effect. Electrochemistry Communications, 2014, 46, 148-151.	2.3	34
78	Electrochemistry of Graphene and Related Materials. Chemical Reviews, 2014, 114, 7150-7188.	23.0	968
79	Prolonged exposure of graphite oxide to soft X-ray irradiation during XPS measurements leads to alterations of the chemical composition. Analyst, The, 2013, 138, 7012.	1.7	11
80	Unusual Inherent Electrochemistry of Graphene Oxides Prepared Using Permanganate Oxidants. Chemistry - A European Journal, 2013, 19, 12673-12683.	1.7	86
81	Carcinogenic Organic Residual Compounds Readsorbed on Thermally Reduced Graphene Materials are Released at Low Temperature. Chemistry - A European Journal, 2013, 19, 14446-14450.	1.7	6
82	Electrocatalytic effect of ZnO nanoparticles on reduction of nitroaromatic compounds. Catalysis Science and Technology, 2013, 3, 123-127.	2.1	40
83	Carbonaceous impurities in carbon nanotubes are responsible for accelerated electrochemistry of acetaminophen. Electrochemistry Communications, 2013, 26, 71-73.	2.3	12
84	Electrochemistry at CVD Grown Multilayer Graphene Transferred onto Flexible Substrates. Journal of Physical Chemistry C, 2013, 117, 2053-2058.	1.5	51
85	Self-propelled nanojets via template electrodeposition. Nanoscale, 2013, 5, 1319-1324.	2.8	54
86	“Metal-Free” Catalytic Oxygen Reduction Reaction on Heteroatom-Doped Graphene is Caused by Trace Metal Impurities. Angewandte Chemie - International Edition, 2013, 52, 13818-13821.	7.2	331
87	Large-scale quantification of CVD graphene surface coverage. Nanoscale, 2013, 5, 2379.	2.8	47
88	Carbonaceous Impurities in Carbon Nanotubes are Responsible for Accelerated Electrochemistry of Cytochrome c. Analytical Chemistry, 2013, 85, 6195-6197.	3.2	20
89	Could Carbonaceous Impurities in Reduced Graphenes be Responsible for Some of Their Extraordinary Electrocatalytic Activities?. Chemistry - an Asian Journal, 2013, 8, 1200-1204.	1.7	18
90	Precise Tuning of Surface Composition and Electron Transfer Properties of Graphene Oxide Films through Electroreduction. Chemistry - A European Journal, 2013, 19, 4748-4753.	1.7	101

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91	Direct electrochemistry of copper oxide nanoparticles in alkaline media. <i>Electrochemistry Communications</i> , 2013, 28, 51-53.	2.3	61
92	Titelbild: "Metal-Free" Catalytic Oxygen Reduction Reaction on Heteroatom-Doped Graphene is Caused by Trace Metal Impurities (<i>Angew. Chem.</i> 51/2013). <i>Angewandte Chemie</i> , 2013, 125, 13721-13721.	1.6	0
93	Thermally reduced graphenes exhibiting a close relationship to amorphous carbon. <i>Nanoscale</i> , 2012, 4, 4972.	2.8	80
94	Gold Nanospacers Greatly Enhance the Capacitance of Electrochemically Reduced Graphene. <i>ChemPlusChem</i> , 2012, 77, 71-73.	1.3	24
95	Impurities in graphenes and carbon nanotubes and their influence on the redox properties. <i>Chemical Science</i> , 2012, 3, 3347.	3.7	123
96	Impedimetric immunoglobulin G immunosensor based on chemically modified graphenes. <i>Nanoscale</i> , 2012, 4, 921-925.	2.8	54
97	Graphenes prepared by Staudenmaier, Hofmann and Hummers methods with consequent thermal exfoliation exhibit very different electrochemical properties. <i>Nanoscale</i> , 2012, 4, 3515.	2.8	363
98	Graphene oxide reduction by standard industrial reducing agent: thiourea dioxide. <i>Journal of Materials Chemistry</i> , 2012, 22, 11054.	6.7	125
99	Introducing dichlorocarbene in graphene. <i>Chemical Communications</i> , 2012, 48, 5376.	2.2	51
100	Chemically reduced graphene contains inherent metallic impurities present in parent natural and synthetic graphite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12899-12904.	3.3	195
101	Noble metal (Pd, Ru, Rh, Pt, Au, Ag) doped graphene hybrids for electrocatalysis. <i>Nanoscale</i> , 2012, 4, 5002.	2.8	214
102	Inherent Electrochemistry and Activation of Chemically Modified Graphenes for Electrochemical Applications. <i>Chemistry - an Asian Journal</i> , 2012, 7, 759-770.	1.7	37
103	The Inherent Electrochemistry of Nickel/Nickel Oxide Nanoparticles. <i>Chemistry - an Asian Journal</i> , 2012, 7, 702-706.	1.7	24
104	On Oxygen-Containing Groups in Chemically Modified Graphenes. <i>Chemistry - A European Journal</i> , 2012, 18, 4541-4548.	1.7	69
105	Bioavailability of Metallic Impurities in Carbon Nanotubes Is Greatly Enhanced by Ultrasonication. <i>Chemistry - A European Journal</i> , 2012, 18, 11593-11596.	1.7	27
106	Inside Cover: On Oxygen-Containing Groups in Chemically Modified Graphenes (<i>Chem. Eur. J.</i> 15/2012). <i>Chemistry - A European Journal</i> , 2012, 18, 4438-4438.	1.7	0
107	Lithium Aluminum Hydride as Reducing Agent for Chemically Reduced Graphene Oxides. <i>Chemistry of Materials</i> , 2012, 24, 2292-2298.	3.2	187
108	Graphene materials preparation methods have dramatic influence upon their capacitance. <i>Electrochemistry Communications</i> , 2012, 14, 5-8.	2.3	96

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109	Nucleic Acid Functionalized Graphene for Biosensing. Chemistry - A European Journal, 2012, 18, 1668-1673.	1.7	72
110	Redox-Active Nickel in Carbon Nanotubes and Its Direct Determination. Chemistry - A European Journal, 2012, 18, 3338-3344.	1.7	25
111	Metallic Impurities in Graphenes Prepared from Graphite Can Dramatically Influence Their Properties. Angewandte Chemie - International Edition, 2012, 51, 500-503.	7.2	164
112	Amorphous Carbon Impurities Play an Active Role in Redox Processes of Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 25281-25284.	1.5	40
113	Chemically-modified graphenes for oxidation of DNA bases: analytical parameters. Analyst, The, 2011, 136, 4738.	1.7	38
114	Graphene Oxides Exhibit Limited Cathodic Potential Window Due to Their Inherent Electroactivity. Journal of Physical Chemistry C, 2011, 115, 17647-17650.	1.5	43
115	Direct Determination of Bioavailable Molybdenum in Carbon Nanotubes. Chemistry - A European Journal, 2011, 17, 1806-1810.	1.7	11
116	Electrochemistry of folded graphene edges. Nanoscale, 2011, 3, 2256.	2.8	74
117	Magnetic and electrokinetic manipulations on a microchip device for bead-based immunosensing applications. Electrophoresis, 2011, 32, 861-869.	1.3	17
118	Electrochemistry at Chemically Modified Graphenes. Chemistry - A European Journal, 2011, 17, 10763-10770.	1.7	288
119	Graphene based nanomaterials as electrochemical detectors in Lab-on-a-chip devices. Electrochemistry Communications, 2011, 13, 517-519.	2.3	50
120	Platelet Graphite Nanofibers for Electrochemical Sensing and Biosensing: The Influence of Graphene Sheet Orientation. Chemistry - an Asian Journal, 2010, 5, 266-271.	1.7	120
121	Regulatory Peptides Are Susceptible to Oxidation by Metallic Impurities within Carbon Nanotubes. Chemistry - A European Journal, 2010, 16, 1786-1792.	1.7	79
122	Nanographite Impurities Dominate Electrochemistry of Carbon Nanotubes. Chemistry - A European Journal, 2010, 16, 10946-10949.	1.7	73
123	Graphene for electrochemical sensing and biosensing. TrAC - Trends in Analytical Chemistry, 2010, 29, 954-965.	5.8	1,041
124	Stable and sensitive flow-through monitoring of phenol using a carbon nanotube based screen printed biosensor. Nanotechnology, 2010, 21, 245502.	1.3	15
125	Stacked graphene nanofibers for electrochemical oxidation of DNA bases. Physical Chemistry Chemical Physics, 2010, 12, 8943.	1.3	81
126	Enhanced Gold Nanoparticle Based ELISA for a Breast Cancer Biomarker. Analytical Chemistry, 2010, 82, 1151-1156.	3.2	345

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127	Structural characterization by confocal laser scanning microscopy and electrochemical study of multi-walled carbon nanotube tyrosinase matrix for phenol detection. <i>Analyst, The</i> , 2010, 135, 1918.	1.7	25
128	Electrochemical Immunosensing Using Micro and Nanoparticles. <i>Methods in Molecular Biology</i> , 2009, 504, 145-155.	0.4	4
129	Nanomaterial based electrochemical transducing platforms for biomedical applications. <i>IFMBE Proceedings</i> , 2009, , 41-44.	0.2	0
130	The application of conducting polymer nanoparticle electrodes to the sensing of ascorbic acid. <i>Analytica Chimica Acta</i> , 2008, 609, 37-43.	2.6	130
131	Electrochemical analysis with nanoparticle-based biosystems. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 568-584.	5.8	104
132	Double-Codified Gold Nanolabels for Enhanced Immunoanalysis. <i>Analytical Chemistry</i> , 2007, 79, 5232-5240.	3.2	354
133	Characterization of Immunological Interactions at an Immuno-electrode by Scanning Electron Microscopy. <i>Electroanalysis</i> , 2007, 19, 244-252.	1.5	3
134	Optimizing the ratio of horseradish peroxidase and glucose oxidase on a bienzyme electrode: Comparison of a theoretical and experimental approach. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 395-402.	4.0	48
135	Comparison Between Voltammetric and Spectrophotometric Methods for Drug Analysis. <i>Current Analytical Chemistry</i> , 2006, 2, 229-241.	0.6	8
136	Electrochemical determination of pharmaceuticals in spiked water samples. <i>Journal of Hazardous Materials</i> , 2005, 122, 219-225.	6.5	56
137	Gold Nanoparticles: A Versatile Label for Affinity Electrochemical Biosensors. , 0, , 177-197.		9