

Xiaojun Zhang

List of Publications by Year in descending order

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120
papers

4,345
citations

94381

37
h-index

128225

60
g-index

121
all docs

121
docs citations

121
times ranked

6325
citing authors

#	ARTICLE	IF	CITATIONS
1	Hollow C@SnS ₂ /SnS nanocomposites: High efficient oxygen evolution reaction catalysts. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 149-156.	5.0	19
2	Autonomous operation of 3D DNA walkers in living cells for microRNA imaging. <i>Nanoscale</i> , 2021, 13, 1863-1868.	2.8	29
3	Iron Doped in the Subsurface of CuS Nanosheets by Interionic Redox: Highly Efficient Electrocatalysts toward the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16210-16217.	4.0	31
4	A DNAzyme-Based Dual-Stimuli Responsive Electrochemiluminescence Resonance Energy Transfer Platform for Ultrasensitive Anatoxin-a Detection. <i>Analytical Chemistry</i> , 2021, 93, 11284-11290.	3.2	34
5	Ultrathin NiCo Bimetallic Molybdate Nanosheets Coated CuO Nanotubes: Heterostructure and Bimetallic Synergistic Optimization of the Active Site for Highly Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2102361.	10.2	50
6	Increasing Photothermal Efficacy by Simultaneous Intra- and Intermolecular Fluorescence Quenching. <i>Advanced Functional Materials</i> , 2020, 30, 1908073.	7.8	49
7	A colorimetric and ratiometric glucose sensor based on conformational switch of i-motif DNA. <i>Talanta Open</i> , 2020, 1, 100001.	1.7	3
8	Furin-Instructed Intracellular Gold Nanoparticle Aggregation for Tumor Photothermal Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 2001566.	7.8	71
9	Photocontrolled Thermosensitive Electrochemiluminescence Hydrogel for Isocarboxiphos Detection. <i>Analytical Chemistry</i> , 2020, 92, 6136-6143.	3.2	30
10	Flexible and self-healing electrochemical hydrogel sensor with high efficiency toward glucose monitoring. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112105.	5.3	68
11	A High-Temperature Na-ion Battery: Boosting the Rate Capability and Cycle Life by Structure Engineering. <i>Small</i> , 2020, 16, e1906669.	5.2	37
12	Target triggered ultrasensitive electrochemical polychlorinated biphenyl aptasensor based on DNA microcapsules and nonlinear hybridization chain reaction. <i>Analyst</i> , 2020, 145, 3598-3604.	1.7	18
13	In Situ Cation Exchange Generated Zn-Ag ₂ S Nanoparticles for Photothermal Detection of Transcription Factor. <i>ACS Applied Bio Materials</i> , 2020, 3, 3260-3267.	2.3	17
14	Co-doped SnS ₂ nanosheet array for efficient oxygen evolution reaction electrocatalyst. <i>Journal of Materials Science</i> , 2019, 54, 13715-13723.	1.7	39
15	Intracellular Imaging of Glutathione with MnO ₂ Nanosheet@Ru(bpy) ₃ ²⁺ UiO-66 Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31693-31699.	4.0	47
16	A fluorescence sensing platform of theophylline based on the interaction of RNA aptamer with graphene oxide. <i>RSC Advances</i> , 2019, 9, 19813-19818.	1.7	13
17	Peroxidase-like activity of acetylcholine-based colorimetric detection of acetylcholinesterase activity and an organophosphorus inhibitor. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2613-2618.	2.9	41
18	Plasmon-Enhanced Electrochemiluminescence of Silver Nanoclusters for microRNA Detection. <i>ACS Sensors</i> , 2019, 4, 1633-1640.	4.0	57

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19	Biomolecule-assisted synthesis and functionality of metal nanoclusters for biological sensing: a review. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1722-1735.	3.2	46
20	Ultrathin trimetallic metal-organic framework nanosheets for highly efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14163-14168.	5.2	67
21	Defect-rich MoS ₂ (1-x)Se _{2x} few-layer nanocomposites: a superior anode material for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9837-9843.	5.2	35
22	Fluorometric methods for determination of H ₂ O ₂ , glucose and cholesterol by using MnO ₂ nanosheets modified with 5-carboxyfluorescein. <i>Mikrochimica Acta</i> , 2019, 186, 269.	2.5	32
23	A poly(thymine)-templated fluorescent copper nanoparticle hydrogel-based visual and portable strategy for an organophosphorus pesticide assay. <i>Analyst</i> , The, 2019, 144, 2423-2429.	1.7	21
24	Fe Foil-Guided Fabrication of Uniform Ag@AgX Nanowires for Sensitive Detection of Leukemia DNA. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4820-4825.	4.0	11
25	Gold nanoparticle aggregation: Colorimetric detection of the interactions between avidin and biotin. <i>Talanta</i> , 2018, 185, 106-112.	2.9	21
26	Zn@ZnO@TiO ₂ nanocomposite: a direct electrode for nonenzymatic biosensors. <i>Journal of Materials Science</i> , 2018, 53, 7138-7149.	1.7	5
27	Target regulated photo induced electron transfer of DNA-Cu nanoparticles and their application for the detection of the hepatitis B gene. <i>Analytical Methods</i> , 2018, 10, 2614-2622.	1.3	4
28	Portable Aptasensor of Aflatoxin B1 in Bread Based on a Personal Glucose Meter and DNA Walking Machine. <i>ACS Sensors</i> , 2018, 3, 1368-1375.	4.0	88
29	Portable aptamer biosensor of platelet-derived growth factor-BB using a personal glucose meter with triply amplified. <i>Biosensors and Bioelectronics</i> , 2017, 95, 152-159.	5.3	48
30	TTE DNA@Cu NPs: enhanced fluorescence and application in a target DNA triggered dual-cycle amplification biosensor. <i>Chemical Communications</i> , 2017, 53, 5629-5632.	2.2	19
31	Deposition of fan-shaped ZnMoO ₄ on ZnCo ₂ O ₄ nanowire arrays for high electrochemical performance. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	7
32	Novel ultrasensitive homogeneous electrochemical aptasensor based on dsDNA-templated copper nanoparticles for the detection of ractopamine. <i>Journal of Materials Chemistry B</i> , 2017, 5, 53-61.	2.9	18
33	Label-free electrochemiluminescent detection of transcription factors with hybridization chain reaction amplification. <i>RSC Advances</i> , 2016, 6, 37681-37688.	1.7	14
34	NiCo ₂ O ₄ @MnMoO ₄ core-shell flowers for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8249-8254.	5.2	105
35	Detection of T4 polynucleotide kinase based on a MnO ₂ nanosheet-3,3',5,5'-tetramethylbenzidine (TMB) colorimetric system. <i>Analytical Methods</i> , 2016, 8, 4119-4126.	1.3	26
36	MnO ₂ nanosheet-based heparin and OSCS fluorescent biosensor with lowered background and amplified hybridization chain reaction. <i>RSC Advances</i> , 2016, 6, 89803-89809.	1.7	7

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37	Synthesis and sensing integration: A novel enzymatic reaction modulated Nanoclusters Beacon (NCB) α -illumination strategy for label-free biosensing and logic gate operation. <i>Biosensors and Bioelectronics</i> , 2016, 86, 588-594.	5.3	3
38	Naked-eye sensitive detection of alkaline phosphatase (ALP) and pyrophosphate (PPI) based on a horseradish peroxidase catalytic colorimetric system with Cu(scp). <i>Analyst, The</i> , 2016, 141, 5549-5554.	1.7	76
39	DNA-gold nanoparticles network based electrochemical biosensors for DNA MTase activity. <i>Talanta</i> , 2016, 152, 228-235.	2.9	21
40	Hierarchical structures composed of MnCo_2O_4 @ MnO_2 core-shell nanowire arrays with enhanced supercapacitor properties. <i>Dalton Transactions</i> , 2016, 45, 572-578.	1.6	88
41	A label-free and enzyme-free ultra-sensitive transcription factors biosensor using DNA-templated copper nanoparticles as fluorescent indicator and hairpin DNA cascade reaction as signal amplifier. <i>Biosensors and Bioelectronics</i> , 2016, 82, 85-92.	5.3	34
42	An amplified electrochemical aptasensor based on hybridization chain reactions and catalysis of silver nanoclusters. <i>Nanoscale</i> , 2015, 7, 3300-3308.	2.8	75
43	A ratiometric colorimetric detection of the folate receptor based on terminal protection of small-molecule-linked DNA. <i>Analyst, The</i> , 2015, 140, 1260-1264.	1.7	15
44	Superior performance asymmetric supercapacitors based on ZnCo_2O_4 @ MnO_2 core-shell electrode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5442-5448.	5.2	158
45	Ultrathin porous nickel-cobalt hydroxide nanosheets for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 17007-17013.	1.7	62
46	Hierarchical NiMn_2O_4 @CNT nanocomposites for high-performance asymmetric supercapacitors. <i>RSC Advances</i> , 2015, 5, 24607-24614.	1.7	73
47	[G3T]5/Tb ³⁺ based DNA biosensor with target DNA-triggered autocatalytic multi-cycle-amplification and magnetic nanoparticles assisted-background-lowered. <i>Biosensors and Bioelectronics</i> , 2015, 74, 931-938.	5.3	7
48	One-strand oligonucleotide probe for fluorescent label-free α -return-on-detection of T4 polynucleotide kinase activity and its inhibition. <i>Analyst, The</i> , 2015, 140, 5650-5655.	1.7	16
49	Hierarchical ZnO @ MnO_2 @PPy ternary core-shell nanorod arrays: an efficient integration of active materials for energy storage. <i>RSC Advances</i> , 2015, 5, 39864-39869.	1.7	15
50	Copper oxide nanofilm on 3D copper foam as a novel electrode material for supercapacitors. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 1451-1457.	1.1	4
51	Effective Hydrazine Electrochemical Sensors Based on Porous CuO Nanobelts Supported on Cu Substrate. <i>Chemistry Letters</i> , 2015, 44, 642-644.	0.7	4
52	Construction of unique Co_3O_4 @ CoMoO_4 core/shell nanowire arrays on Ni foam by the action exchange method for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14578-14584.	5.2	84
53	Three-dimensional NiCo_2O_4 @ NiMoO_4 core/shell nanowires for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12069-12075.	5.2	51
54	A simple label-free electrochemical method for the detection of polynucleotide kinase activity by a peroxidase mimic: TiO ₂ nanotube array. <i>Analytical Methods</i> , 2015, 7, 10345-10349.	1.3	8

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55	Anion-exchange reaction synthesized CoNi ₂ S ₄ nanowires for superior electrochemical performances. RSC Advances, 2015, 5, 84974-84979.	1.7	26
56	Morphology-controllable synthesis of 3D firecracker-like ZnO nanoarchitectures for high catalytic performance. CrystEngComm, 2015, 17, 1121-1128.	1.3	13
57	Photoinduced electron transfer (PET) based label-free aptasensor for platelet-derived growth factor-BB and its logic gate application. Biosensors and Bioelectronics, 2015, 63, 552-557.	5.3	43
58	Adenosine Triphosphate Sensing by Electrocatalysis with DNAzyme. Electroanalysis, 2014, 26, 312-318.	1.5	6
59	Ultrasensitive IL-6 electrochemical immunosensor based on Au nanoparticles-graphene-silica biointerface. Colloids and Surfaces B: Biointerfaces, 2014, 116, 714-719.	2.5	56
60	Colorimetric and visual determination of melamine by exploiting the conformational change of hemin G-quadruplex-DNAzyme. Mikrochimica Acta, 2014, 181, 411-418.	2.5	17
61	Detection of polynucleotide kinase activity by using a gold electrode modified with magnetic microspheres coated with titanium dioxide nanoparticles and a DNA dendrimer. Analyst, The, 2014, 139, 3895.	1.7	25
62	Dual hairpin-like molecular beacon based on coralyne-adenosine interaction for sensing melamine in dairy products. Talanta, 2014, 129, 398-403.	2.9	6
63	Amplified and selective detection of Ag ⁺ ions based on electrically contacted enzymes on duplex-like DNA scaffolds. Biosensors and Bioelectronics, 2014, 59, 269-275.	5.3	24
64	Development of an electrochemical sensor based on the catalysis of ferrocene actuated hemin/G-quadruplex enzyme for the detection of potassium ions. Biosensors and Bioelectronics, 2014, 61, 410-416.	5.3	26
65	3D porous gear-like copper oxide and their high electrochemical performance as supercapacitors. CrystEngComm, 2013, 15, 7657.	1.3	63
66	Controllable synthesis of silver nanodendrites on copper rod and its application to hydrogen peroxide and glucose detection. CrystEngComm, 2013, 15, 1173-1178.	1.3	34
67	High electrochemical performance based on ultrathin porous CuO nanobelts grown on Cu substrate as integrated electrode. Physical Chemistry Chemical Physics, 2013, 15, 521-525.	1.3	52
68	Study on the electrochemical oxidation of glucose on different Cu@Cu ₂ S integrated electrodes. Analytical Methods, 2013, 5, 4476.	1.3	2
69	Detection of T4 polynucleotide kinase activity with immobilization of TiO ₂ nanotubes and amplification of Au nanoparticles. Biosensors and Bioelectronics, 2013, 43, 125-130.	5.3	48
70	Non-enzymatic electrochemical sensing of glucose. Mikrochimica Acta, 2013, 180, 161-186.	2.5	427
71	Electrochemical immunosensor with graphene/gold nanoparticles platform and ferrocene derivatives label. Talanta, 2013, 103, 75-80.	2.9	43
72	G-quadruplex-Linked Supersandwich DNA Structure for Electrochemical Amplified Detection of Thrombin. Electroanalysis, 2013, 25, 1960-1966.	1.5	4

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73	Study on porous Cu-based enzyme-free glucose electrochemical sensor with different entrapping agents. <i>Micro and Nano Letters</i> , 2013, 8, 395-399.	0.6	5
74	Au NPs@Ni(OH) ₂ @Cu nanocomposites enhanced electrochemical properties for detection of H ₂ O ₂ . <i>Analytical Methods</i> , 2012, 4, 496.	1.3	7
75	Electrochemical amplified detection of Hg ²⁺ based on the supersandwich DNA structure. <i>Analyst</i> , The, 2012, 137, 2036.	1.7	20
76	Electrochemical Immunosensor for α-Fetoprotein Based on Gold Nanoparticles/Graphene@Prussian Blue. <i>Chinese Journal of Chemistry</i> , 2012, 30, 485-490.	2.6	5
77	Hydrogen Peroxide Sensor Based on Carbon Nanotubes@Ni(OH) ₂ Nanocomposites. <i>Chinese Journal of Chemistry</i> , 2012, 30, 501-506.	2.6	6
78	Determination of cadmium(II) using glassy carbon electrodes modified with cupferron, 1-naphthol, and multiwalled carbon nanotubes. <i>Mikrochimica Acta</i> , 2012, 177, 221-228.	2.5	12
79	Electrically contacted enzyme based on dual hairpin DNA structure and its application for amplified detection of Hg ²⁺ . <i>Biosensors and Bioelectronics</i> , 2012, 35, 108-114.	5.3	33
80	Dual functional electrochemical sensor based on Au@polydopamine@Fe ₃ O ₄ nanocomposites. <i>Analytical Methods</i> , 2011, 3, 2475.	1.3	11
81	Graphene-Prussian blue/gold nanoparticles based electrochemical immunoassay of carcinoembryonic antigen. <i>Analytical Methods</i> , 2011, 3, 2082.	1.3	22
82	Porous Cu@NiO modified glass carbon electrode enhanced nonenzymatic glucose electrochemical sensors. <i>Analyst</i> , The, 2011, 136, 5175.	1.7	75
83	Copper(II) doped nanoporous TiO ₂ composite based glucose biosensor. <i>Analytical Methods</i> , 2011, 3, 2611.	1.3	7
84	A study of the separation, enrichment and determination of trace amounts of Hg ²⁺ synchronously. <i>Analytical Methods</i> , 2011, 3, 865.	1.3	1
85	Electrochemical determination of copper(II) using co-poly (cupferron and 1-naphthol)/gold nanoparticles modified glassy carbon electrodes. <i>Analytical Methods</i> , 2011, 3, 1595.	1.3	5
86	Microwave-assisted synthesis of Zn _x Cd _{1-x} S/MWCNT heterostructures and their photocatalytic properties. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2225-2234.	0.8	20
87	A uric acid sensor based on electrodeposition of nickel hexacyanoferrate nanoparticles on an electrode modified with multi-walled carbon nanotubes. <i>Mikrochimica Acta</i> , 2011, 173, 27-32.	2.5	36
88	Electrocatalytic oxidation of hydrazine at a glassy carbon electrode modified with nickel ferrite and multi-walled carbon nanotubes. <i>Mikrochimica Acta</i> , 2011, 175, 145-150.	2.5	25
89	Electrocatalysis of Puerarin on a Nano-CeO ₂ /MWCNTs Composite Modified Electrode and Its Determination in Pharmaceutical Preparations. <i>Chinese Journal of Chemistry</i> , 2011, 29, 1017-1023.	2.6	12
90	Controlled Synthesis of Ag/Ag/C Hybrid Nanostructures and their Surface-Enhanced Raman Scattering Properties. <i>Chemistry - A European Journal</i> , 2011, 17, 13386-13390.	1.7	9

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91	Fabrication of prussian blue/multi-walled carbon nanotubes modified electrode for electrochemical sensing of hydroxylamine. <i>Mikrochimica Acta</i> , 2010, 168, 129-134.	2.5	23
92	Synthesis of CuO nanoflower and its application as a H ₂ O ₂ sensor. <i>Bulletin of Materials Science</i> , 2010, 33, 17-20.	0.8	64
93	Synthesis of MnO ₂ /MWNTs Nanocomposites Using a Sonochemical Method and Application for Hydrazine Detection. <i>Electroanalysis</i> , 2010, 22, 1123-1129.	1.5	25
94	Synthesis and Characterization of Chromium Hexacyanoferrate/Multiwalled Carbon Nanotube Composite and Its Biosensing for L-Cysteine. <i>Electroanalysis</i> , 2010, 22, 2383-2388.	1.5	6
95	Fabrication of CuO nanowalls on Cu substrate for a high performance enzyme-free glucose sensor. <i>CrystEngComm</i> , 2010, 12, 1120-1126.	1.3	88
96	Gold nanoparticles/l-cysteine/graphene composite based immobilization strategy for an electrochemical immunosensor. <i>Analytical Methods</i> , 2010, 2, 1692.	1.3	33
97	Amperometric Detection of Hydrogen Peroxide Using Glassy Carbon Electrodes Modified with Chromium Hexacyanoferrate/Single-Walled Carbon Nanotube Nanocomposites. <i>Electroanalysis</i> , 2009, 21, 179-183.	1.5	9
98	Electrochemical Preparation and Characterization of Neodymium Hexacyanoferrate and Its Application. <i>Electroanalysis</i> , 2009, 21, 2680-2684.	1.5	4
99	Functionalization of Single-Walled Carbon Nanotubes with Cubic Prussian Blue and Its Application for Amperometric Sensing. <i>Electroanalysis</i> , 2009, 21, 2325-2330.	1.5	44
100	A novel hydrogen peroxide sensor based on multiwalled carbon nanotubes/poly(pyrocatechol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	1.3	18
101	Electrocatalytic oxidation of bilirubin at ferrocenecarboxamide modified MWCNT-gold nanocomposite electrodes. <i>Mikrochimica Acta</i> , 2009, 164, 113-118.	2.5	49
102	Self-assembly of a silver nanoparticles modified electrode and its electrocatalysis on neutral red. <i>Mikrochimica Acta</i> , 2009, 164, 149-155.	2.5	26
103	Simultaneous determination of dopamine, uric acid and ascorbic acid with LaFeO ₃ nanoparticles modified electrode. <i>Mikrochimica Acta</i> , 2009, 164, 357-362.	2.5	91
104	Electrocatalytic oxidation of hydrazine at a chromium hexacyanoferrate/single-walled carbon nanotube modified glassy carbon electrode. <i>Mikrochimica Acta</i> , 2009, 165, 231-236.	2.5	17
105	Synthesis hexagonal Ni(OH) ₂ nanosheets for use in electrochemistry sensors. <i>Mikrochimica Acta</i> , 2009, 167, 47-52.	2.5	17
106	Luminescent CuS nanotubes as silver ion probes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 1071-1075.	2.0	6
107	Fixure-reduce method for the synthesis of Cu ₂ O/MWCNTs nanocomposites and its application as enzyme-free glucose sensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3395-3398.	5.3	141
108	Preparation of CuO-Nanoparticle-Modified Electrode and Its Application in the Determination of Rutin. <i>Analytical Letters</i> , 2009, 42, 1084-1093.	1.0	9

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109	Synthesis of TiO ₂ -doped SiO ₂ composite films and its applications. <i>Bulletin of Materials Science</i> , 2008, 31, 787-790.	0.8	19
110	Microwave-assisted preparation of a carbon nanotube/La(OH) ₃ nanocomposite, and its application to electrochemical determination of adenine and guanine. <i>Mikrochimica Acta</i> , 2008, 162, 175-180.	2.5	27
111	Fabrication and Application of a Novel Modified Electrode Based on Multiwalled Nanotubes/Cerium(III) Tungstophosphoric Acid Nanocomposite. <i>Electroanalysis</i> , 2008, 20, 1234-1240.	1.5	11
112	Electrocatalysis and determination of uracil on polythionine/multiwall carbon nanotubes modified electrode. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3173-3178.	1.3	10
113	CuS nanotubes for ultrasensitive nonenzymatic glucose sensors. <i>Chemical Communications</i> , 2008, , 5945.	2.2	147
114	Preparation and Application of La(OH) ₃ Nanoparticles Self-Assembled Film Modified Electrode. <i>Analytical Letters</i> , 2007, 40, 705-714.	1.0	2
115	Preparation of poly(9-aminoacridine)-modified electrode and its application in the determination of dopamine and ascorbic acid simultaneously. <i>Journal of Applied Polymer Science</i> , 2007, 104, 3864-3870.	1.3	14
116	Preparation of Carbon Nanotubes/Neutral Red Composite Film Modified Electrode and Its Catalysis on Rutin. <i>Electroanalysis</i> , 2007, 19, 2329-2334.	1.5	22
117	Determination of rutin using a CeO ₂ nanoparticle-modified electrode. <i>Mikrochimica Acta</i> , 2007, 158, 269-274.	2.5	59
118	Electrocatalysis of Oxygen at Hemoglobin-Au Colloid-1,4-Benzenedimethanethiol Modified Electrode. <i>Annali Di Chimica</i> , 2006, 96, 247-252.	0.6	5
119	Fabrication of Fe ₃ O ₄ Nanoparticles Modified Electrode and Its Application for Voltammetric Sensing of Dopamine. <i>Electroanalysis</i> , 2005, 17, 744-748.	1.5	95
120	Application of Functionalized Ag Nanoparticles for the Determination of Proteins at Nanogram Levels Using the Resonance Light Scattering Method. <i>Mikrochimica Acta</i> , 2004, 147, 81.	2.5	16