Joanna NiedziÃ³Å‚ka-JÃ¶nsson

List of Publications by Year
in descending order

112 papers	2,899 citations	136950 32 h-index	206112 48 g-index
112 all docs	112 docs citations	112 times ranked	3865 citing authors

#	Article	IF	Citations
1	Performance of nanoimprinted and nanocoated optical label-free biosensor - nanocoating properties perspective. Optics and Lasers in Engineering, 2022, 153, 107009.	3.8	4
2	Real-Time Fluorescence Imaging of His-Tag-Driven Conjugation of mCherry Proteins to Silver Nanowires. Chemosensors, 2022, 10, 149.	3.6	1
3	Functional fluorine-doped tin oxide coating for opto-electrochemical label-free biosensors. Sensors and Actuators B: Chemical, 2022, 367, 132145.	7.8	14
4	Controlling plasmon propagation and enhancement via reducing agent in wet chemistry synthesized silver nanowires. Optics Express, 2021, 29, 8834.	3.4	3
5	Adsorption of bacteriophages on polypropylene labware affects the reproducibility of phage research. Scientific Reports, 2021, 11, 7387.	3.3	29
6	Patterned silver island paths as high-contrast optical sensing platforms. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 268, 115124.	3.5	0
7	A Tribute to Marcin Opallo on his 65â€‰th Birthday: Electrochemistry over 40 Years. ChemElectroChem, 2021, 8, 2990-2992.	3.4	0
8	Fingermark detection using upconverting nanoparticles and comparison with cyanoacrylate fuming. Forensic Science International, 2021, 326, 110915.	2.2	10
9	Native llama Nanobody Library Panning Performed by Phage and Yeast Display Provides Binders Suitable for C-Reactive Protein Detection. Biosensors, 2021, 11, 496.	4.7	10
10	CRP-binding bacteriophage as a new element of layer-by-layer assembly carbon nanofiber modified electrodes. Bioelectrochemistry, 2020, 136, 107629.	4.6	10
11	In Situ Interactions of Eu(TTA)₃(H₂O)₂ with Latent Fingermark Componentsâ€”A Time-Gated Visualization of Latent Fingermarks on Paper. Analytical Chemistry, 2020, 92, 15671-15678.	6.5	6
12	Phage-Based Sensors in Medicine: A Review. Chemosensors, 2020, 8, 61.	3.6	16
13	Photochemical Printing of Plasmonically Active Silver Nanostructures. International Journal of Molecular Sciences, 2020, 21, 2006.	4.1	3
14	Correlating Plasmon Polariton Propagation and Fluorescence Enhancement in Single Silver Nanowires. Journal of Physical Chemistry C, 2020, 124, 15418-15424.	3.1	2
15	Immunosensor Based on Long-Period Fiber Gratings for Detection of Viruses Causing Gastroenteritis. Sensors, 2020, 20, 813.	3.8	23
16	Simultaneous optical and electrochemical label-free biosensing with ITO-coated lossy-mode resonance sensor. Biosensors and Bioelectronics, 2020, 154, 112050.	10.1	40
17	Silver Island Film for Enhancing Light Harvesting in Natural Photosynthetic Proteins. International Journal of Molecular Sciences, 2020, 21, 2451.	4.1	6
18	Real-time fluorescence sensing of single photoactive proteins using silver nanowires. Methods and Applications in Fluorescence, 2020, 8, 045004.	2.3	5

#	Article	IF	Citations
19	Printed carbon based interface for protein immobilization. Journal of Materials Science: Materials in Electronics, 2019, 30, 12465-12474.	2.2	0
20	Plasmonics with Metallic Nanowires. Materials, 2019, 12, 1418.	2.9	9
21	Water-Induced Fused Silica Glass Surface Alterations Monitored Using Long-Period Fiber Gratings. Journal of Lightwave Technology, 2019, 37, 4542-4548.	4.6	4
22	Ultrasensitive tantalum oxide nano-coated long-period gratings for detection of various biological targets. Biosensors and Bioelectronics, 2019, 133, 8-15.	10.1	48
23	Optical Properties of Submillimeter Silver Nanowires Synthesized Using the Hydrothermal Method. Materials, 2019, 12, 721.	2.9	12
24	Electrodes modified with bacteriophages and carbon nanofibres for cysteine detection. Sensors and Actuators B: Chemical, 2019, 287, 78-85.	7.8	24
25	Recent applications of bacteriophage-based electrodes: A mini-review. Electrochemistry Communications, 2019, 99, 11-15.	4.7	38
26	Optical investigations of electrochemical processes using a long-period fiber grating functionalized by indium tin oxide. Sensors and Actuators B: Chemical, 2019, 279, 223-229.	7.8	30
27	Optical fiber lossy-mode resonance sensors with doped tin oxides for optical working electrode monitoring in electrochemical systems. , 2019, , .		3
28	Combined optical and electrochemical analysis of protein binding with ITO-coated lossy-mode resonance sensor. , 2019, , .		1
29	Alkali-resistant low-temperature atomic-layer-deposited oxides for optical fiber sensor overlays. Nanotechnology, 2018, 29, 135602.	2.6	7
30	Recent advances in bacteriophage-based methods for bacteria detection. Drug Discovery Today, 2018, 23, 448-455.	6.4	101
31	Spectrally selective fluorescence imaging of Chlorobaculum tepidum reaction centers conjugated to chelator-modified silver nanowires. Photosynthesis Research, 2018, 135, 329-336.	2.9	4
32	An alternative carrier solvent for fingermark enhancement reagents. Forensic Science International, 2018, 284, 53-64.	2.2	15
33	Orientation of photosystem I on graphene through cytochrome c₅₅₃ leads to improvement in photocurrent generation. Journal of Materials Chemistry A, 2018, 6, 18615-18626.	10.3	32
34	Malononitrile derivatives as push-pull molecules: Structure - properties relationships characterization. Journal of Luminescence, 2018, 203, 455-466.	3.1	4
35	Wide-Field Fluorescence Microscopy of Real-Time Bioconjugation Sensing. Sensors, 2018, 18, 290.	3.8	7
36	Capturing fluorescing viruses with silver nanowires. Sensors and Actuators B: Chemical, 2018, 273, 689-695.	7.8	7

#	Article	IF	Citations
37	Interactions of bacteriophage T4 adhesin with selected lipopolysaccharides studied using atomic force microscopy. Scientific Reports, 2018, 8, 10935.	3.3	12
38	Long-period fiber grating sensor for detection of viruses. Sensors and Actuators B: Chemical, 2017, 250, 32-38.	7.8	79
39	Specific detection of very low concentrations of DNA oligonucleotides with DNA-coated long-period grating biosensor. , 2017, , .		4
40	Surface-enhanced Raman spectroscopy introduced into the International Standard Organization (ISO) regulations as an alternative method for detection and identification of pathogens in the food industry. Analytical and Bioanalytical Chemistry, 2017, 409, 1555-1567.	3.7	49
41	Bacteriophage-Based Bioconjugates as a Flow Cytometry Probe for Fast Bacteria Detection. Bioconjugate Chemistry, 2017, 28, 419-425.	3.6	38
42	Highly active 3-dimensional cobalt oxide nanostructures on the flexible carbon substrates for enzymeless glucose sensing. Analyst, The, 2017, 142, 4299-4307.	3.5	36
43	Titanium oxide thin films obtained with physical and chemical vapour deposition methods for optical biosensing purposes. Biosensors and Bioelectronics, 2017, 93, 102-109.	10.1	41
44	Bacteriophages-Carbon Nanofibre Modified Electrodes for Biosensing Applications. Proceedings (mdpi), 2017, 1, .	0.2	0
45	Bacteriophages in electrochemistry: A review. Journal of Electroanalytical Chemistry, 2016, 779, 207-219.	3.8	35
46	Stack of Nano-Films on Optical Fiber End Face for Label-Free Bio-Recognition. Journal of Lightwave Technology, 2016, 34, 5357-5362.	4.6	17
47	Modified Filamentous Bacteriophage as a Scaffold for Carbon Nanofiber. Bioconjugate Chemistry, 2016, 27, 2900-2910.	3.6	16
48	Regeneration of titanium oxide nano-coated long-period grating biosensor. Proceedings of SPIE, 2016, , .	0.8	1
49	Single molecule Raman spectra of porphycene isotopologues. Nanoscale, 2016, 8, 3337-3349.	5.6	25
50	Hierarchical 3-dimensional nickelâ€“iron nanosheet arrays on carbon fiber paper as a novel electrode for non-enzymatic glucose sensing. Nanoscale, 2016, 8, 843-855.	5.6	88
51	Electroassisted click chemistry immobilisation of gold nanoparticles on a solid substrate. Electrochemistry Communications, 2015, 53, 20-23.	4.7	6
52	Hollow microtubes made of carbon, boron and gold: novel semiconducting nanocomposite material for applications in electrochemistry and temperature sensing. RSC Advances, 2015, 5, 64083-64090.	3.6	2
53	Near-Field and Far-Field Sensitivities of LSPR Sensors. Journal of Physical Chemistry C, 2015, 119, 9470-9476.	3.1	23
54	Fluorescence enhancement of photosynthetic complexes separated from nanoparticles by a reduced graphene oxide layer. Applied Physics Letters, 2014, 104, 093103.	3.3	7

#	Article	IF	Citations
55	Preparation of reduced graphene oxideâ€“Ni(OH)₂composites by electrophoretic deposition: application for non-enzymatic glucose sensing. Journal of Materials Chemistry A, 2014, 2, 5525-5533.	10.3	128
56	Carbon Nanoparticulate Film Electrode Prepared by Electrophoretic Deposition. Electrochemical oxidation of Thiocholine and Topography Imaging with SECM Equipment in Dry Conditions. Electrochimica Acta, 2014, 144, 136-140.	5.2	7
57	An impedimetric immunosensor based on diamond nanowires decorated with nickel nanoparticles. Analyst, The, 2014, 139, 1726.	3.5	19
58	Click chemistry modification of glassy carbon electrode with gold nanoparticles for electroactive ion discrimination. Electrochemistry Communications, 2014, 48, 73-76.	4.7	13
59	T7 bacteriophage induced changes of gold nanoparticle morphology: biopolymer capped gold nanoparticles as versatile probes for sensitive plasmonic biosensors. Analyst, The, 2014, 139, 3563-3571.	3.5	30
60	Tungsten Carbide Nanotubes Supported Platinum Nanoparticles as a Potential Sensing Platform for Oxalic Acid. Analytical Chemistry, 2014, 86, 7849-7857.	6.5	25
61	Selective electrochemical detection of dopamine in a microfluidic channel on carbon nanoparticulate electrodes. Analyst, The, 2014, 139, 2896.	3.5	22
62	Antibody Modified Gold Nanoparticles for Fast and Selective, Colorimetric T7 Bacteriophage Detection. Bioconjugate Chemistry, 2014, 25, 644-648.	3.6	69
63	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. Biosensors and Bioelectronics, 2013, 50, 239-243.	10.1	125
64	Sensitive sugar detection using 4-aminophenylboronic acid modified graphene. Biosensors and Bioelectronics, 2013, 50, 331-337.	10.1	64
65	Carbon nanoparticulate films as effective scaffolds for mediatorless bioelectrocatalytic hydrogen oxidation. Electrochimica Acta, 2013, 111, 434-440.	5.2	11
66	Thiolâ€“Yne Click Reactions on Alkynylâ€“Dopamineâ€Modified Reduced Graphene Oxide. Chemistry - A European Journal, 2013, 19, 8673-8678.	3.3	36
67	Electrodeposition for preparation of efficient surface-enhanced Raman scattering-active silver nanoparticle substrates for neurotransmitter detection. Electrochimica Acta, 2013, 89, 284-291.	5.2	27
68	(Bio)electrocatalysis at tin-doped indium oxide nanoparticulate film decorated with gold. Electrochimica Acta, 2013, 106, 165-171.	5.2	5
69	Reduction and Functionalization of Graphene Oxide Sheets Using Biomimetic Dopamine Derivatives in One Step. ACS Applied Materials & Interfaces, 2012, 4, 1016-1020.	8.0	182
70	Electrodeposition of Well-Adhered Multifarious Au Particles at a Solid|Toluene|Aqueous Electrolyte Three-Phase Junction. Journal of Physical Chemistry C, 2012, 116, 22476-22485.	3.1	22
71	Preparation of graphene/tetrathiafulvalene nanocomposite switchable surfaces. Chemical Communications, 2012, 48, 1221-1223.	4.1	59
72	Preparation of a Responsive Carbohydrate-Coated Biointerface Based on Graphene/Azido-Terminated Tetrathiafulvalene Nanohybrid Material. ACS Applied Materials & Interfaces, 2012, 4, 5386-5393.	8.0	44

#	Article	IF	Citations
73	Optical and electrochemical properties of tunable hostâ€“guest complexes linked to plasmonic interfaces. Journal of Materials Chemistry, 2011, 21, 3006.	6.7	19
74	Gold three dimensional film electrode prepared from oppositely charged nanoparticles. Electrochemistry Communications, 2011, 13, 1170-1173.	4.7	14
75	One-step electrodeposition of carbonâ€“silicate sponge assisted by a three-phase junction for efficient bioelectrocatalysis. Electrochemistry Communications, 2011, 13, 566-569.	4.7	13
76	Electrosynthesis of thin solâ€“gel films at a three-phase junction. Electrochimica Acta, 2011, 56, 3311-3316.	5.2	12
77	Theoretical and experimental study of the short and long range sensing using gold nanostructures. , 2010, , .		2
78	Covalent modification of boron-doped diamond electrodes with an imidazolium-based ionic liquid. Electrochimica Acta, 2010, 55, 1582-1587.	5.2	23
79	Amorphous siliconâ€“carbon alloys for efficient localized surface plasmon resonance sensing. Biosensors and Bioelectronics, 2010, 25, 1199-1203.	10.1	26
80	Carbon ceramic nanoparticulate film electrode prepared from oppositely charged particles by layer-by-layer approach. Electrochemistry Communications, 2010, 12, 83-85.	4.7	22
81	Electrodeposition of gold nanoparticles at a solid|ionic liquid|aqueous electrolyte three-phase junction. Electrochemistry Communications, 2010, 12, 1742-1745.	4.7	31
82	Molecular monolayers on silicon as substrates for biosensors. Bioelectrochemistry, 2010, 80, 17-25.	4.6	32
83	Preparation and reactivity of carboxylic acid-terminated boron-doped diamond electrodes. Electrochimica Acta, 2010, 55, 959-964.	5.2	5
84	Development of New Localized Surface Plasmon Resonance Interfaces Based on Gold Nanostructures Sandwiched between Tin-Doped Indium Oxide Films. Langmuir, 2010, 26, 4266-4273.	3.5	18
85	Label-Free Detection of Lectins on Carbohydrate-Modified Boron-Doped Diamond Surfaces. Analytical Chemistry, 2010, 82, 8203-8210.	6.5	66
86	Sensitivity of Plasmonic Nanostructures Coated with Thin Oxide Films for Refractive Index Sensing: Experimental and Theoretical Investigations. Journal of Physical Chemistry C, 2010, 114, 11769-11775.	3.1	37
87	Development and Characterization of a Diamond-Based Localized Surface Plasmon Resonance Interface. Journal of Physical Chemistry C, 2010, 114, 3346-3353.	3.1	33
88	Surface Plasmon Resonance on Gold and Silver Films Coated with Thin Layers of Amorphous Siliconâ^'Carbon Alloys. Langmuir, 2010, 26, 6058-6065.	3.5	37
89	The Effect of Ionic Liquid Covalent Bonding to Solâ€€Gel Processed Film on Ion Accumulation and Transfer. Electroanalysis, 2009, 21, 701-706.	2.9	13
90	Electrode modified with nanoporous silicate submicrometre particles with appended ionic liquid. Electrochemistry Communications, 2009, 11, 1305-1307.	4.7	10

#	Article	IF	Citations
91	Hydrophilic carbon nanoparticle-laccase thin film electrode for mediatorless dioxygen reduction. Electrochimica Acta, 2009, 54, 4620-4625.	5.2	66
92	Short- and Long-Range Sensing Using Plasmonic Nanostrucures: Experimental and Theoretical Studies. Journal of Physical Chemistry C, 2009, 113, 15921-15927.	3.1	43
93	Adsorption of 2,2â€²-Azino-Bis(3-ethylbenzothiazoline-6-sulfonate) on Multiwalled Carbon Nanotubes-Silicate Film: Application to Bioelectrocatalytic Dioxygen Reduction. Journal of Nanoscience and Nanotechnology, 2009, 9, 2346-2352.	0.9	18
94	Bioelectrocatalytic dioxygen reduction at hybrid silicateâ€“polyallylamine film with encapsulated laccase. Journal of Electroanalytical Chemistry, 2008, 612, 1-8.	3.8	16
95	Solâ€“gel processed ionic liquid â€“ hydrophilic carbon nanoparticles multilayer film electrode prepared by layer-by-layer method. Journal of Electroanalytical Chemistry, 2008, 623, 170-176.	3.8	36
96	Introducing hydrophilic carbon nanoparticles into hydrophilic sol-gel film electrodes. Journal of Solid State Electrochemistry, 2008, 12, 287-293.	2.5	34
97	Scanning electrochemical microscopy study of ion transfer process across water/2-nitrophenyloctylether interface supported by hydrophobic carbon ceramic electrode. Journal of Solid State Electrochemistry, 2008, 12, 1285-1291.	2.5	18
98	Electrochemically assisted solâ€“gel process at a three phase junction. Electrochemistry Communications, 2008, 10, 1445-1447.	4.7	20
99	A Porous ITO Nanoparticles Modified Electrode for the Redox Liquid Immobilization. Electroanalysis, 2007, 19, 155-160.	2.9	23
100	Electrode modified with ionic liquid covalently bonded to silicate matrix for accumulation of electroactive anions. Electrochemistry Communications, 2007, 9, 2580-2584.	4.7	26
101	The electrochemical ion-transfer reactivity of porphyrinato metal complexes in 4-(3-phenylpropyl)pyridine | water systems. New Journal of Chemistry, 2006, 30, 327.	2.8	23
102	Changing the direction of ion transfer across o-nitrophenyloctyletherâˆ£water interface coupled to electrochemical redox reaction. Electrochemistry Communications, 2006, 8, 941-945.	4.7	13
103	Ion transfer processes at the room temperature ionic liquid|aqueous solution interface supported by a hydrophobic carbon nanofibers â€“ silica composite film. Journal of Electroanalytical Chemistry, 2006, 587, 133-139.	3.8	37
104	Characterisation of hydrophobic carbon nanofiberâ€“silica composite film electrodes for redox liquid immobilisation. Electrochimica Acta, 2006, 51, 5897-5903.	5.2	29
105	Characterisation of biphasic electrodes based on the liquid N,N-didodecyl-Nâ€²Nâ€²-diethylphenylenediamine redox system immobilised on porous hydrophobic silicates and immersed in aqueous media. Journal of Electroanalytical Chemistry, 2005, 582, 202-208.	3.8	11
106	Characterisation of gold electrodes modified with methyltrimethoxysilane and (3-mercaptopropyl) trimethoxysilane solâ€“gel processed films. Journal of Electroanalytical Chemistry, 2005, 578, 239-245.	3.8	21
107	Ion transfer processes at ionic liquid based redox active drop deposited on an electrode surface. Chemical Communications, 2005, , 2954.	4.1	35
108	Stabilising electrode|redox liquid|aqueous solution system with hydrophobic silicate film. Electrochemistry Communications, 2004, 6, 475-479.	4.7	21

#	Article	IF	Citations
109	Hydrophobic silica solâ€“gel films for biphasic electrodes and porotrodes. Analyst, The, 2004, 129, 1181-1185.	3.5	14
110	Electrochemical redox reaction at silicate based electrodeâ€“silicate based electrolyte interface. Electrochemistry Communications, 2003, 5, 924-928.	4.7	7
111	Solid electrolyte based on silicate matrix functionalised with tetraalkylammonium group solvated by organic solvent. Electrochimica Acta, 2003, 48, 4149-4155.	5.2	1
112	Potentiometric and spectroscopic characterization of anion selective electrodes based on metal(III) porphyrin ionophores in polyurethane membranes. Analytica Chimica Acta, 2001, 432, 67-78.	5.4	79