Noureddine Raouafi

List of Publications by Year
in descending order

103	2,134	218592	276775
papers	citations	26 h-index	41 g-index

106	106	106	2895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bio(Sensing) devices based on ferroceneâ€“functionalized graphene and carbon nanotubes. Carbon, 2016, 108, 481-514.	5.4	118
2	Do Molecular Conductances Correlate with Electrochemical Rate Constants? Experimental Insights. Journal of the American Chemical Society, 2011, 133, 7509-7516.	6.6	114
3	Copper nanoparticles of well-controlled size and shape: a new advance in synthesis and self-organization. Nanoscale, 2015, 7, 3189-3195.	2.8	88
4	Curcumin-graphene quantum dots for dual mode sensing platform: Electrochemical and fluorescence detection of APOe4, responsible of Alzheimer's disease. Analytica Chimica Acta, 2018, 1036, 141-146.	2.6	88
5	Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prostate specific antigen. Sensors and Actuators B: Chemical, 2018, 255, 309-315.	4.0	78
6	Highly efficient extraction and selective separation of uranium (VI) from transition metals using new class of undiluted ionic liquids based on H-phosphonate anions. Journal of Hazardous Materials, 2018, 342, 464-476.	6.5	64
7	Femtomolar direct voltammetric determination of circulating miRNAs in sera of cancer patients using an enzymeless biosensor. Analytica Chimica Acta, 2020, 1104, 188-198.	2.6	58
8	Competitive RNA-RNA hybridization-based integrated nanostructured-disposable electrode for highly sensitive determination of miRNAs in cancer cells. Biosensors and Bioelectronics, 2017, 91, 40-45.	5.3	53
9	Amperometric Biosensing of miRNA-21 in Serum and Cancer Cells at Nanostructured Platforms Using Anti-DNAâ€“RNA Hybrid Antibodies. ACS Omega, 2018, 3, 8923-8931.	1.6	53
10	Electrochemical aptamer-based bioplatform for ultrasensitive detection of prostate specific antigen. Sensors and Actuators B: Chemical, 2019, 297, 126762.	4.0	52
11	Ferrocene-functionalized graphene electrode for biosensing applications. Analytica Chimica Acta, 2016, 926, 28-35.	2.6	50
12	Chlortoluron-induced enzymatic activity inhibition in tyrosinase/ZnO NPs/SPCE biosensor for the detection of ppb levels of herbicide. Sensors and Actuators B: Chemical, 2015, 219, 171-178.	4.0	47
13	Revealing molecular self-assembly and geometry of non-covalent halogen bonding by solid-state NMR spectroscopy. Chemical Communications, 2008, , 5981.	2.2	42
14	Hydrothermal synthesis of urchin-like Co3O4 nanostructures and their electrochemical sensing performance of H2O2. Journal of Solid State Chemistry, 2015, 228, 226-231.	1.4	42
15	Switching On/Off the Chemisorption of Thioctic-Based Self-Assembled Monolayers on Gold by Applying a Moderate Cathodic/Anodic Potential. Langmuir, 2013, 29, 5360-5368.	1.6	41
16	Enzymatic sensing of glucose in artificial saliva using a flat electrode consisting of a nanocomposite prepared from reduced graphene oxide, chitosan, nafion and glucose oxidase. Mikrochimica Acta, 2016, 183, 1227-1233.	2.5	40
17	A sensitive nitrite sensor using an electrode consisting of reduced graphene oxide functionalized with ferrocene. Mikrochimica Acta, 2016, 183, 3111-3117.	2.5	35
18	E-DNA detection of rpoB gene resistance in Mycobacterium tuberculosis in real samples using Fe3O4/polypyrrole nanocomposite. Biosensors and Bioelectronics, 2019, 128, 76-82.	5.3	35

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19	Design of a redox-active surface for ultrasensitive redox capacitive aptasensing of aflatoxin M1 in milk. Talanta, 2019, 195, 525-532.	2.9	35
20	Functionalized SERS substrate based on silicon nanowires for rapid detection of prostate specific antigen. Sensors and Actuators B: Chemical, 2021, 330, 129352.	4.0	35
21	Aptamer-modified pencil graphite electrodes for the impedimetric determination of ochratoxin A. Food Control, 2020, 115, 107271.	2.8	34
22	Non-enzymatic amperometric sensor for hydrogen peroxide detection based on a ferrocene-containing cross-linked redox-active polymer. Sensors and Actuators B: Chemical, 2018, 274, 412-418.	4.0	33
23	Mesoporous silica thin film mechanized with a DNAzyme-based molecular switch for electrochemical biosensing. Electrochemistry Communications, 2015, 58, 57-61.	2.3	32
24	Single-Step Incubation Determination of miRNAs in Cancer Cells Using an Amperometric Biosensor Based on Competitive Hybridization onto Magnetic Beads. Sensors, 2018, 18, 863.	2.1	32
25	Ultrasensitive determination of microribonucleic acids in cancer cells with nanostructured-disposable electrodes using the viral protein p19 for recognition of ribonucleic acid/microribonucleic acid homoduplexes. Electrochimica Acta, 2018, 262, 39-47.	2.6	28
26	New Series of Green Cyclic Ammonium-Based Room Temperature Ionic Liquids with Alkylphosphite-Containing Anion: Synthesis and Physicochemical Characterization.. Journal of Chemical & Engineering Data, 2014, 59, 1193-1201.	1.0	26
27	Preparation of manganese sulfide (MnS) thin films by chemical bath deposition: Application of the experimental design methodology. Journal of Alloys and Compounds, 2016, 663, 507-515.	2.8	26
28	Electrochemically Driven Release of Picomole Amounts of Calcium Ions with Temporal and Spatial Resolution. Angewandte Chemie - International Edition, 2008, 47, 5211-5214.	7.2	25
29	Label-free electrochemical genosensor based on mesoporous silica thin film. Analytical and Bioanalytical Chemistry, 2016, 408, 7321-7327.	1.9	25
30	NOUVELLE SYNTHÃˆSE DE [1,2-A]BENZIMIDAZOLO-1,3,5,2-TRIAZAPHOSPHORINES ET DE [1,2-A]BENZIMIDAZOLO-1,3,5,2- TRIAZAPHOSPHORINE-2-THIONES. Phosphorus, Sulfur and Silicon and the Related Elements, 2004, 179, 1387-1395.	0.8	23
31	Gold nanoparticles decorated with a ferrocene derivative as a potential shift-based transducing system of interest for sensitive immunosensing. Journal of Materials Chemistry B, 2013, 1, 2951.	2.9	23
32	Toxicity and Electrochemical Detection of Lead, Cadmium and Nitrite Ions by Organic Conducting Polymers: A Review. Chemistry Africa, 2020, 3, 499-512.	1.2	22
33	Biosensor based on antifouling PEG/Gold nanoparticles composite for sensitive detection of aflatoxin M1 in milk. Microchemical Journal, 2021, 165, 106102.	2.3	22
34	Reaction of Nâ€thioamido amidines with phosphoramide derivatives: Synthesis of 2â€substitutedâ€1,3,5,2â€triazaphosphorines. Heteroatom Chemistry, 2009, 20, 272-277.	0.4	21
35	Optical response and SERS properties of individual large scale supracrystals made of small silver nanocrystals. Nano Research, 2015, 8, 1615-1626.	5.8	21
36	Determination of miRNAs in serum of cancer patients with a label- and enzyme-free voltammetric biosensor in a single 30-min step. Mikrochimica Acta, 2020, 187, 444.	2.5	20

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37	Electrogenerated base-promoted synthesis ofN-benzylic rhodanine and carbamodithioate derivatives. Journal of Sulfur Chemistry, 2010, 31, 41-48.	1.0	19
38	Highly efficient and eco-friendly extraction of neodymium using, undiluted and non-fluorinated ionic liquids. Direct electrochemical metal separation. Separation and Purification Technology, 2017, 175, 87-98.	3.9	19
39	Fluorescent and electrochemical bimodal bioplatform for femtomolar detection of microRNAs in blood sera. Sensors and Actuators B: Chemical, 2021, 327, 128950.	4.0	19
40	Optimized design of a nanostructured SPCE-based multipurpose biosensing platform formed by ferrocene-tethered electrochemically-deposited cauliflower-shaped gold nanoparticles. Beilstein Journal of Nanotechnology, 2015, 6, 1840-1852.	1.5	18
41	Sensitive detection of ascorbic acid using screen-printed electrodes modified by electroactive melanin-like nanoparticles. RSC Advances, 2019, 9, 37384-37390.	1.7	18
42	Novel Electrochemical Molecularly Imprinted Polymer-Based Biosensor for Tau Protein Detection. Chemosensors, 2021, 9, 238.	1.8	18
43	Elaboration of a chemical sensor based on polyaniline and sulfanilic acid diazonium salt for highly sensitive detection nitrite ions in acidified aqueous media. Environmental Science: Water Research and Technology, 2018, 4, 1024-1034.	1.2	17
44	Multiplexed Magnetofluorescent Bioplatform for the Sensitive Detection of SARS-CoV-2 Viral RNA without Nucleic Acid Amplification. Analytical Chemistry, 2021, 93, 11225-11232.	3.2	17
45	Temperature effect on structural, morphological and optical properties of 2D-MoS2 layers: An experimental and theoretical study. Optik, 2021, 228, 166166.	1.4	16
46	Electrochemically active phenylenediamine probes for transition metal cation detection. New Journal of Chemistry, 2011, 35, 709.	1.4	15
47	Thiophene-based electrochemically active probes for selective calcium detection. Electrochimica Acta, 2012, 63, 228-231.	2.6	15
48	Indirect amperometric sensing of dopamine using a redox-switchable naphthoquinone-terminated self-assembled monolayer on gold electrode. Mikrochimica Acta, 2016, 183, 1137-1144.	2.5	15
49	Ferroceneâ€“Functionalized Carbon Nanotubes: An Adsorbent for Rhodamine B. Chemistry Africa, 2019, 2, 113-122.	1.2	15
50	Electrochemical immunoplatform to assist in the diagnosis and classification of breast cancer through the determination of matrix-metalloproteinase-9. Talanta, 2021, 225, 122054.	2.9	15
51	Electrogenerated Base-Promoted Synthesis of Dithiocarbamate Acid Esters and 3-(N-Substituted-amino)-2-cyanodithiocrotonates from Primary or Secondary Amines and Carbon Disulfide. Phosphorus, Sulfur and Silicon and the Related Elements, 2008, 182, 2477-2490.	0.8	14
52	A printed SWCNT electrode modified with polycatechol and lysozyme for capacitive detection of Î±-lactalbumin. Mikrochimica Acta, 2017, 184, 4351-4357.	2.5	14
53	MoS2/PPy Nanocomposite as a Transducer for Electrochemical Aptasensor of Ampicillin in River Water. Biosensors, 2021, 11, 311.	2.3	14
54	SYNTHESIS AND REACTVITY OF N-[N-PHOSPHORAMIDO-1H-BENZIMIDAZOL-2-YL] IMIDATES. Phosphorus, Sulfur and Silicon and the Related Elements, 2004, 179, 2471-2482.	0.8	13

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55	A naphthoquinone/SAM-mediated biosensor for olive oil polyphenol content. Food Chemistry, 2016, 209, 274-278.	4.2	13
56	Ultrasensitive sensing of Androctonus australis hector scorpion venom toxins in biological fluids using an electrochemical graphene quantum dots/nanobody-based platform. Talanta, 2018, 190, 182-187.	2.9	13
57	Quantum interference effect of single-molecule conductance influenced by insertion of different alkyl length. Electrochemistry Communications, 2016, 68, 86-89.	2.3	12
58	Synthesis, Crystal Structure and Computational Studies of 1-Phenylpiperazin-1,4-Diium Nitrate Monohydrate. E-Journal of Chemistry, 2012, 9, 772-779.	0.4	11
59	Electrochemical immunoassay for lactalbumin based on the use of ferrocene-modified gold nanoparticles and lysozyme-modified magnetic beads. Mikrochimica Acta, 2018, 185, 449.	2.5	11
60	Impedimetric DNA E-biosensor for multiplexed sensing of Escherichia coli and its virulent f17 strains. Mikrochimica Acta, 2020, 187, 635.	2.5	11
61	Density Functional Theory Investigation of Graphene Functionalization with Activated Carbenes and Its Application in the Sensing of Heavy Metallic Cations. Journal of Physical Chemistry C, 2021, 125, 26418-26428.	1.5	11
62	Dual Amperometric Immunosensor for Improving Cancer Metastasis Detection by the Simultaneous Determination of Extracellular and Soluble Circulating Fraction of Emerging Metastatic Biomarkers. Electroanalysis, 2020, 32, 706-714.	1.5	10
63	Pristine graphene covalent functionalization with aromatic aziridines and their application in the sensing of volatile amines â€“ an ab initio investigation. RSC Advances, 2021, 11, 7070-7077.	1.7	10
64	Self-Assembled MoS2/ssDNA Nanostructures for the Capacitive Aptasensing of Acetamiprid Insecticide. Applied Sciences (Switzerland), 2021, 11, 1382.	1.3	10
65	Amperometric xanthine biosensors using glassy carbon electrodes modified with electrografted porous silica nanomaterials loaded with xanthine oxidase. Mikrochimica Acta, 2016, 183, 2023-2030.	2.5	9
66	Electroâ€assisted Deposition of Binary Selfâ€Assembled 1,2â€Dithiolane Monolayers on Gold with Predictable Composition. ChemElectroChem, 2016, 3, 1422-1428.	1.7	9
67	Electrogenerated base promoted synthesis of N-substituted-4-hydroxy-4-methylthiazolidine-2-thione derivatives. Journal of Chemical Research, 2009, 2009, 710-712.	0.6	8
68	Electrically controlled Michael addition: Addressing of covalent immobilization of biological receptors. Biosensors and Bioelectronics, 2018, 121, 72-79.	5.3	8
69	Application of Doehlert Matrix for an Optimized Preparation of a Surface-Enhanced Raman Spectroscopy (SERS) Substrate Based on Silicon Nanowires for Ultrasensitive Detection of Rhodamine 6G. Applied Spectroscopy, 2020, 74, 168-177.	1.2	8
70	Investigation of a Truncated Aptamer for Ofloxacin Detection Using a Rapid FRET-Based Apta-Assay. Antibiotics, 2020, 9, 860.	1.5	8
71	Self-assembled monolayers from symmetrical di-thiols: Preparation, characterization and application for the assembly of electrochemically active films. Applied Surface Science, 2020, 513, 145827.	3.1	7
72	Direct Amperometric Sensing of Fish Nodavirus RNA Using Gold Nanoparticle/DNA-Based Bioconjugates. Pathogens, 2021, 10, 932.	1.2	7

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73	Preparation of 3,3-bis(ethylthiol)-2-arylacrylonitrile and 3,3-bis(ethoxyacetatethiol)-2-arylacrylonitrile via an electrogenerated base-promoted reaction. Journal of Sulfur Chemistry, 2012, 33, 513-520.	1.0	6
74	In silicoscreening for oligopeptides useful as capture and reporting probes for interleukin-6 biosensing. RSC Advances, 2022, 12, 13003-13013.	1.7	6
75	X-ray and computational structural study of neutral bis(N,N,Nâ€²,Nâ€²-tetramethylthiophosphoramidoyl)-methylamine. Structural Chemistry, 2007, 18, 569-572.	1.0	5
76	Ultrasound-promoted aromatic nucleophilic substitution of dichlorobenzene iron(II) complexes. Tetrahedron Letters, 2009, 50, 1720-1722.	0.7	5
77	An ultrasensitive nanobiohybrid platform for glucose electrochemical biosensing based on ferrocenyl iminopropyl-modified silica nanoparticles. RSC Advances, 2016, 6, 46238-46243.	1.7	5
78	DNA markers and nano-biosensing approaches for tuberculosis diagnosis. , 2020, , 207-230.		5
79	Sandwich-Based Immunosensor for Dual-Mode Detection of Pathogenic F17â€“Positive Escherichia coli Strains. International Journal of Molecular Sciences, 2022, 23, 6028.	1.8	5
80	An Electrogenerated Base-Promoted Synthesis of 2-Aryl-3,3-Bis((Perfluoroalkyl) Thio)Acrylonitriles. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 1320-1326.	0.8	4
81	Solvent Effects on the Electrochemical Behavior of TAPD-Based Redox-Responsive Probes for Cadmium(II). International Journal of Electrochemistry, 2014, 2014, 1-9.	2.4	4
82	Control of Electronâ€transfer in Immunonanosensors by Using Polyclonal and Monoclonal Antibodies. Electroanalysis, 2016, 28, 1795-1802.	1.5	4
83	Induced conformational change on ferrocenyl-terminated alkyls and their application as transducers for label-free immunosensing of Alzheimer's disease biomarker. RSC Advances, 2016, 6, 2414-2421.	1.7	4
84	(Z)-Ethyl 2-cyano-3-(1-phenylethylamino)but-2-enedithioate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2735-o2735.	0.2	3
85	Reactivity of N-thioamido amidines with halogenated alkyl derivatives: synthesis of 4,5-disubstituted 2-alkylaminothiazoles. Journal of Sulfur Chemistry, 2008, 29, 593-605.	1.0	3
86	Cathodic reduction of diazonium salts in aprotic medium. Electrochemistry Communications, 2010, 12, 973-976.	2.3	3
87	Hindered Rotation in Some Organic Dithiocarbamates. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 920-930.	0.8	3
88	Unexpected Reaction of Bis(Diethylamino)-Fluorophosphine with N-Benzimidazol-2-Yl-Nâ€²-Amidines. Phosphorus, Sulfur and Silicon and the Related Elements, 2007, 182, 899-904.	0.8	2
89	Ïƒ-Hole bonding in 15N-labeled N-Benzyl-N-(4-iodo-tetrafluorobenzyl)-amine: Synthesis, crystal structure and solid-state structure calculations. Journal of Molecular Structure, 2011, 990, 32-36.	1.8	2
90	A novel electrochemical and chromogenic guest-responsive anisidine-based chemosensor for transition metallic cations. Journal of Electroanalytical Chemistry, 2014, 731, 179-183.	1.9	2

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91	Electrocatalytic Sensor for Hydrogen Peroxide Based on Immobilized Benzoquinone. Electroanalysis, 2021, 33, 2062-2070.	1.5	2
92	2-Amino-1-[bis(N,N-dimethylamino)phosphoramido]benzimidazole. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o1583-o1585.	0.2	1
93	Synthesis, Spectral and Structural Study of N-[1-(N,N,N?,N?-Tetramethylphosphoramidoyl)-1H-Benzimidazol-2-yl]-Propionimidic Ethyl Ether. Structural Chemistry, 2005, 16, 169-172.	1.0	1
94	Circulating miRNAs as biomarkers for noninvasive cancer diagnosis. , 2022, , 71-112.		1
95	Novel Synthesis of [1,2-a]Benzimidazolo-1,3,5,2-triazaphosphorines and [1,2-a]Benzimidazolo-1,3,5,2-triazaphosphorine-2-thiones.. ChemInform, 2004, 35, no.	0.1	0
96	Synthesis, spectroscopic and structural studies of N-(1H-benzimidazol-2-yl)-Nâ€²-benzyl propionamidine. Journal of Chemical Crystallography, 2007, 37, 381-386.	0.5	0
97	Redox-responsive probes for selective chelation of bivalent cations. QScience Connect, 2012, 2012, .	0.2	0
98	Correction to â€œNew Series of Green Cyclic Ammonium-Based Room Temperature Ionic Liquids with Alkylphosphite-Containing Anion: Synthesis and Physicochemical Characterizationâ€• Journal of Chemical & Engineering Data, 2019, 64, 3670-3670.	1.0	0
99	A rapid ultrasound-promoted Hornerâ€“Wadsworthâ€“Emmons reaction for the preparation of ferrocene derivatives. Application to ferrocene-modified ITO electrodes. Arabian Journal of Chemistry, 2019, 12, 1004-1010.	2.3	0
100	Sandwichâ˜Based Immunosensor for Electrochemical and Fluorescent Detection of F17-Positive Escherichia Coli and its F17A Fimbrial Protein. SSRN Electronic Journal, 0, , .	0.4	0
101	Self-Assembled Monolayers from Symmetrical Di-Thiols: Preparation, Characterization and Application for the Assembly of Electrochemically Active Films. Engineering Proceedings, 2021, 6, .	0.4	0
102	Electrocatalytical Chemical Sensor for Hydrogen Peroxide. Engineering Proceedings, 2021, 6, .	0.4	0
103	Synthesis, characterization and electrochemical behavior of new bis(fluoroalkyl) ferrocenylphosphonates and their tin tetrachloride complexes. Journal of Organometallic Chemistry, 2022, 957, 122178.	0.8	0