

Noureddine Raouafi

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

2,134
citations

218592

26
h-index

276775

41
g-index

106
all docs

106
docs citations

106
times ranked

2895
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization and electrochemical behavior of new bis(fluoroalkyl) ferrocenylphosphonates and their tin tetrachloride complexes. <i>Journal of Organometallic Chemistry</i> , 2022, 957, 122178.	0.8	0
2	Circulating miRNAs as biomarkers for noninvasive cancer diagnosis. , 2022, , 71-112.		1
3	<i>In silico</i> screening for oligopeptides useful as capture and reporting probes for interleukin-6 biosensing. <i>RSC Advances</i> , 2022, 12, 13003-13013.	1.7	6
4	Sandwich-Based Immunosensor for Dual-Mode Detection of Pathogenic F17â€“Positive Escherichia coli Strains. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6028.	1.8	5
5	Fluorescent and electrochemical bimodal bioplatfrom for femtomolar detection of microRNAs in blood sera. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128950.	4.0	19
6	Temperature effect on structural, morphological and optical properties of 2D-MoS2 layers: An experimental and theoretical study. <i>Optik</i> , 2021, 228, 166166.	1.4	16
7	Pristine graphene covalent functionalization with aromatic aziridines and their application in the sensing of volatile amines â€“ an <i>ab initio</i> investigation. <i>RSC Advances</i> , 2021, 11, 7070-7077.	1.7	10
8	Self-Assembled MoS2/ssDNA Nanostructures for the Capacitive Aptasensing of Acetamidrid Insecticide. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1382.	1.3	10
9	Functionalized SERS substrate based on silicon nanowires for rapid detection of prostate specific antigen. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129352.	4.0	35
10	Electrochemical immunoplatfrom to assist in the diagnosis and classification of breast cancer through the determination of matrix-metalloproteinase-9. <i>Talanta</i> , 2021, 225, 122054.	2.9	15
11	Self-Assembled Monolayers from Symmetrical Di-Thiols: Preparation, Characterization and Application for the Assembly of Electrochemically Active Films. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
12	Electrocatalytical Chemical Sensor for Hydrogen Peroxide. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
13	Biosensor based on antifouling PEG/Gold nanoparticles composite for sensitive detection of aflatoxin M1 in milk. <i>Microchemical Journal</i> , 2021, 165, 106102.	2.3	22
14	Direct Amperometric Sensing of Fish Nodavirus RNA Using Gold Nanoparticle/DNA-Based Bioconjugates. <i>Pathogens</i> , 2021, 10, 932.	1.2	7
15	Electrocatalytic Sensor for Hydrogen Peroxide Based on Immobilized Benzoquinone. <i>Electroanalysis</i> , 2021, 33, 2062-2070.	1.5	2
16	Multiplexed Magnetofluorescent Bioplatfrom for the Sensitive Detection of SARS-CoV-2 Viral RNA without Nucleic Acid Amplification. <i>Analytical Chemistry</i> , 2021, 93, 11225-11232.	3.2	17
17	Novel Electrochemical Molecularly Imprinted Polymer-Based Biosensor for Tau Protein Detection. <i>Chemosensors</i> , 2021, 9, 238.	1.8	18
18	MoS2/PPy Nanocomposite as a Transducer for Electrochemical Aptasensor of Ampicillin in River Water. <i>Biosensors</i> , 2021, 11, 311.	2.3	14

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19	Density Functional Theory Investigation of Graphene Functionalization with Activated Carbenes and Its Application in the Sensing of Heavy Metallic Cations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26418-26428.	1.5	11
20	Dual Amperometric Immunosensor for Improving Cancer Metastasis Detection by the Simultaneous Determination of Extracellular and Soluble Circulating Fraction of Emerging Metastatic Biomarkers. <i>Electroanalysis</i> , 2020, 32, 706-714.	1.5	10
21	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. <i>Applied Spectroscopy</i> , 2020, 74, 168-177.	1.2	8
22	Determination of miRNAs in serum of cancer patients with a label- and enzyme-free voltammetric biosensor in a single 30-min step. <i>Mikrochimica Acta</i> , 2020, 187, 444.	2.5	20
23	Investigation of a Truncated Aptamer for Ofloxacin Detection Using a Rapid FRET-Based Apta-Assay. <i>Antibiotics</i> , 2020, 9, 860.	1.5	8
24	Impedimetric DNA E-biosensor for multiplexed sensing of Escherichia coli and its virulent f17 strains. <i>Mikrochimica Acta</i> , 2020, 187, 635.	2.5	11
25	DNA markers and nano-biosensing approaches for tuberculosis diagnosis. , 2020, , 207-230.		5
26	Toxicity and Electrochemical Detection of Lead, Cadmium and Nitrite Ions by Organic Conducting Polymers: A Review. <i>Chemistry Africa</i> , 2020, 3, 499-512.	1.2	22
27	Self-assembled monolayers from symmetrical di-thiols: Preparation, characterization and application for the assembly of electrochemically active films. <i>Applied Surface Science</i> , 2020, 513, 145827.	3.1	7
28	Femtomolar direct voltammetric determination of circulating miRNAs in sera of cancer patients using an enzymeless biosensor. <i>Analytica Chimica Acta</i> , 2020, 1104, 188-198.	2.6	58
29	Aptamer-modified pencil graphite electrodes for the impedimetric determination of ochratoxin A. <i>Food Control</i> , 2020, 115, 107271.	2.8	34
30	Correction to "New Series of Green Cyclic Ammonium-Based Room Temperature Ionic Liquids with Alkylphosphite-Containing Anion: Synthesis and Physicochemical Characterization". <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 3670-3670.	1.0	0
31	Electrochemical aptamer-based bioplatfrom for ultrasensitive detection of prostate specific antigen. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126762.	4.0	52
32	Sensitive detection of ascorbic acid using screen-printed electrodes modified by electroactive melanin-like nanoparticles. <i>RSC Advances</i> , 2019, 9, 37384-37390.	1.7	18
33	E-DNA detection of rpoB gene resistance in Mycobacterium tuberculosis in real samples using Fe3O4/polypyrrole nanocomposite. <i>Biosensors and Bioelectronics</i> , 2019, 128, 76-82.	5.3	35
34	Design of a redox-active surface for ultrasensitive redox capacitive aptasensing of aflatoxin M1 in milk. <i>Talanta</i> , 2019, 195, 525-532.	2.9	35
35	Ferrocene-Functionalized Carbon Nanotubes: An Adsorbent for Rhodamine B. <i>Chemistry Africa</i> , 2019, 2, 113-122.	1.2	15
36	A rapid ultrasound-promoted Horner-Wadsworth-Emmons reaction for the preparation of ferrocene derivatives. Application to ferrocene-modified ITO electrodes. <i>Arabian Journal of Chemistry</i> , 2019, 12, 1004-1010.	2.3	0

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37	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. <i>Electrochimica Acta</i> , 2018, 262, 39-47.	2.6	28
38	Highly efficient extraction and selective separation of uranium (VI) from transition metals using new class of undiluted ionic liquids based on H-phosphonate anions. <i>Journal of Hazardous Materials</i> , 2018, 342, 464-476.	6.5	64
39	Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prostate specific antigen. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 309-315.	4.0	78
40	Electrochemical immunoassay for lactalbumin based on the use of ferrocene-modified gold nanoparticles and lysozyme-modified magnetic beads. <i>Mikrochimica Acta</i> , 2018, 185, 449.	2.5	11
41	Elaboration of a chemical sensor based on polyaniline and sulfanilic acid diazonium salt for highly sensitive detection nitrite ions in acidified aqueous media. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1024-1034.	1.2	17
42	Ultrasensitive sensing of <i>Androctonus australis hector</i> scorpion venom toxins in biological fluids using an electrochemical graphene quantum dots/nanobody-based platform. <i>Talanta</i> , 2018, 190, 182-187.	2.9	13
43	Non-enzymatic amperometric sensor for hydrogen peroxide detection based on a ferrocene-containing cross-linked redox-active polymer. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 412-418.	4.0	33
44	Curcumin-graphene quantum dots for dual mode sensing platform: Electrochemical and fluorescence detection of APOe4, responsible of Alzheimer's disease. <i>Analytica Chimica Acta</i> , 2018, 1036, 141-146.	2.6	88
45	Single-Step Incubation Determination of miRNAs in Cancer Cells Using an Amperometric Biosensor Based on Competitive Hybridization onto Magnetic Beads. <i>Sensors</i> , 2018, 18, 863.	2.1	32
46	Amperometric Biosensing of miRNA-21 in Serum and Cancer Cells at Nanostructured Platforms Using Anti-DNA-RNA Hybrid Antibodies. <i>ACS Omega</i> , 2018, 3, 8923-8931.	1.6	53
47	Electrically controlled Michael addition: Addressing of covalent immobilization of biological receptors. <i>Biosensors and Bioelectronics</i> , 2018, 121, 72-79.	5.3	8
48	Competitive RNA-RNA hybridization-based integrated nanostructured-disposable electrode for highly sensitive determination of miRNAs in cancer cells. <i>Biosensors and Bioelectronics</i> , 2017, 91, 40-45.	5.3	53
49	A printed SWCNT electrode modified with polycatechol and lysozyme for capacitive detection of β -lactalbumin. <i>Mikrochimica Acta</i> , 2017, 184, 4351-4357.	2.5	14
50	Highly efficient and eco-friendly extraction of neodymium using, undiluted and non-fluorinated ionic liquids. Direct electrochemical metal separation. <i>Separation and Purification Technology</i> , 2017, 175, 87-98.	3.9	19
51	Control of Electron-transfer in Immunonanosenors by Using Polyclonal and Monoclonal Antibodies. <i>Electroanalysis</i> , 2016, 28, 1795-1802.	1.5	4
52	Amperometric xanthine biosensors using glassy carbon electrodes modified with electrografted porous silica nanomaterials loaded with xanthine oxidase. <i>Mikrochimica Acta</i> , 2016, 183, 2023-2030.	2.5	9
53	Label-free electrochemical genosensor based on mesoporous silica thin film. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7321-7327.	1.9	25
54	An ultrasensitive nanobiohybrid platform for glucose electrochemical biosensing based on ferrocenyl iminopropyl-modified silica nanoparticles. <i>RSC Advances</i> , 2016, 6, 46238-46243.	1.7	5

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55	Quantum interference effect of single-molecule conductance influenced by insertion of different alkyl length. <i>Electrochemistry Communications</i> , 2016, 68, 86-89.	2.3	12
56	Ferrocene-functionalized graphene electrode for biosensing applications. <i>Analytica Chimica Acta</i> , 2016, 926, 28-35.	2.6	50
57	A naphthoquinone/SAM-mediated biosensor for olive oil polyphenol content. <i>Food Chemistry</i> , 2016, 209, 274-278.	4.2	13
58	A sensitive nitrite sensor using an electrode consisting of reduced graphene oxide functionalized with ferrocene. <i>Mikrochimica Acta</i> , 2016, 183, 3111-3117.	2.5	35
59	Bio(Sensing) devices based on ferrocene-functionalized graphene and carbon nanotubes. <i>Carbon</i> , 2016, 108, 481-514.	5.4	118
60	Electro-assisted Deposition of Binary Self-Assembled 1,2-Dithiolane Monolayers on Gold with Predictable Composition. <i>ChemElectroChem</i> , 2016, 3, 1422-1428.	1.7	9
61	Indirect amperometric sensing of dopamine using a redox-switchable naphthoquinone-terminated self-assembled monolayer on gold electrode. <i>Mikrochimica Acta</i> , 2016, 183, 1137-1144.	2.5	15
62	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. <i>Mikrochimica Acta</i> , 2016, 183, 1227-1233.	2.5	40
63	Induced conformational change on ferrocenyl-terminated alkyls and their application as transducers for label-free immunosensing of Alzheimer's disease biomarker. <i>RSC Advances</i> , 2016, 6, 2414-2421.	1.7	4
64	Preparation of manganese sulfide (MnS) thin films by chemical bath deposition: Application of the experimental design methodology. <i>Journal of Alloys and Compounds</i> , 2016, 663, 507-515.	2.8	26
65	Optimized design of a nanostructured SPCE-based multipurpose biosensing platform formed by ferrocene-tethered electrochemically-deposited cauliflower-shaped gold nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1840-1852.	1.5	18
66	Chlortoluron-induced enzymatic activity inhibition in tyrosinase/ZnO NPs/SPCE biosensor for the detection of ppb levels of herbicide. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 171-178.	4.0	47
67	Copper nanoparticles of well-controlled size and shape: a new advance in synthesis and self-organization. <i>Nanoscale</i> , 2015, 7, 3189-3195.	2.8	88
68	Mesoporous silica thin film mechanized with a DNAzyme-based molecular switch for electrochemical biosensing. <i>Electrochemistry Communications</i> , 2015, 58, 57-61.	2.3	32
69	Hydrothermal synthesis of urchin-like Co ₃ O ₄ nanostructures and their electrochemical sensing performance of H ₂ O ₂ . <i>Journal of Solid State Chemistry</i> , 2015, 228, 226-231.	1.4	42
70	Optical response and SERS properties of individual large scale supracrystals made of small silver nanocrystals. <i>Nano Research</i> , 2015, 8, 1615-1626.	5.8	21
71	Solvent Effects on the Electrochemical Behavior of TAPD-Based Redox-Responsive Probes for Cadmium(II). <i>International Journal of Electrochemistry</i> , 2014, 2014, 1-9.	2.4	4
72	New Series of Green Cyclic Ammonium-Based Room Temperature Ionic Liquids with Alkylphosphite-Containing Anion: Synthesis and Physicochemical Characterization.. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1193-1201.	1.0	26

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73	A novel electrochemical and chromogenic guest-responsive anisidine-based chemosensor for transition metallic cations. <i>Journal of Electroanalytical Chemistry</i> , 2014, 731, 179-183.	1.9	2
74	An Electrogenerated Base-Promoted Synthesis of 2-Aryl-3,3-Bis((Perfluoroalkyl) Thio)Acrylonitriles. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 1320-1326.	0.8	4
75	Hindered Rotation in Some Organic Dithiocarbamates. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 920-930.	0.8	3
76	Switching On/Off the Chemisorption of Thioctic-Based Self-Assembled Monolayers on Gold by Applying a Moderate Cathodic/Anodic Potential. <i>Langmuir</i> , 2013, 29, 5360-5368.	1.6	41
77	Gold nanoparticles decorated with a ferrocene derivative as a potential shift-based transducing system of interest for sensitive immunosensing. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2951.	2.9	23
78	Redox-responsive probes for selective chelation of bivalent cations. <i>QScience Connect</i> , 2012, 2012, .	0.2	0
79	Preparation of 3,3-bis(ethylthiol)-2-arylacrylonitrile and 3,3-bis(ethoxyacetatethiol)-2-arylacrylonitrile via an electrogenerated base-promoted reaction. <i>Journal of Sulfur Chemistry</i> , 2012, 33, 513-520.	1.0	6
80	Synthesis, Crystal Structure and Computational Studies of 1-Phenylpiperazin-1,4-Diium Nitrate Monohydrate. <i>E-Journal of Chemistry</i> , 2012, 9, 772-779.	0.4	11
81	Thiophene-based electrochemically active probes for selective calcium detection. <i>Electrochimica Acta</i> , 2012, 63, 228-231.	2.6	15
82	Electrochemically active phenylenediamine probes for transition metal cation detection. <i>New Journal of Chemistry</i> , 2011, 35, 709.	1.4	15
83	Do Molecular Conductances Correlate with Electrochemical Rate Constants? Experimental Insights. <i>Journal of the American Chemical Society</i> , 2011, 133, 7509-7516.	6.6	114
84	Ïf-Hole bonding in 15N-labeled N-Benzyl-N-(4-iodo-tetrafluorobenzyl)-amine: Synthesis, crystal structure and solid-state structure calculations. <i>Journal of Molecular Structure</i> , 2011, 990, 32-36.	1.8	2
85	Cathodic reduction of diazonium salts in aprotic medium. <i>Electrochemistry Communications</i> , 2010, 12, 973-976.	2.3	3
86	Electrogenerated base-promoted synthesis of <i>N</i> -benzylic rhodanine and carbamodithioate derivatives. <i>Journal of Sulfur Chemistry</i> , 2010, 31, 41-48.	1.0	19
87	Reaction of <i>N</i> -thioamido amidines with phosphoramidate derivatives: Synthesis of 2-substituted-1,3,5-triazaphosphorines. <i>Heteroatom Chemistry</i> , 2009, 20, 272-277.	0.4	21
88	Ultrasound-promoted aromatic nucleophilic substitution of dichlorobenzene iron(II) complexes. <i>Tetrahedron Letters</i> , 2009, 50, 1720-1722.	0.7	5
89	Electrogenerated base promoted synthesis of <i>N</i> -substituted-4-hydroxy-4-methylthiazolidine-2-thione derivatives. <i>Journal of Chemical Research</i> , 2009, 2009, 710-712.	0.6	8
90	Electrochemically Driven Release of Picomole Amounts of Calcium Ions with Temporal and Spatial Resolution. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5211-5214.	7.2	25

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91	Revealing molecular self-assembly and geometry of non-covalent halogen bonding by solid-state NMR spectroscopy. <i>Chemical Communications</i> , 2008, , 5981.	2.2	42
92	Reactivity of N-thioamido amidines with halogenated alkyl derivatives: synthesis of 4,5-disubstituted 2-alkylaminothiazoles. <i>Journal of Sulfur Chemistry</i> , 2008, 29, 593-605.	1.0	3
93	Electrogenerated Base-Promoted Synthesis of Dithiocarbamate Acid Esters and 3-(N-Substituted-amino)-2-cyanodithiocrotonates from Primary or Secondary Amines and Carbon Disulfide. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2008, 182, 2477-2490.	0.8	14
94	Unexpected Reaction of Bis(Diethylamino)-Fluorophosphine with N-Benzimidazol-2-yl-N ² -Amidines. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2007, 182, 899-904.	0.8	2
95	(Z)-Ethyl 2-cyano-3-(1-phenylethylamino)but-2-enedithioate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o2735-o2735.	0.2	3
96	X-ray and computational structural study of neutral bis(N,N,N ² ,N ² -tetramethylthiophosphoramidoyl)-methylamine. <i>Structural Chemistry</i> , 2007, 18, 569-572.	1.0	5
97	Synthesis, spectroscopic and structural studies of N-(1H-benzimidazol-2-yl)-N ² -benzyl propionamidine. <i>Journal of Chemical Crystallography</i> , 2007, 37, 381-386.	0.5	0
98	Synthesis, Spectral and Structural Study of N-[1-(N,N,N ² ,N ² -Tetramethylphosphoramidoyl)-1H-Benzimidazol-2-yl]-Propionimidic Ethyl Ether. <i>Structural Chemistry</i> , 2005, 16, 169-172.	1.0	1
99	SYNTHESIS AND REACTIVITY OF N-[N-PHOSPHORAMIDO-1H-BENZIMIDAZOL-2-YL] IMIDATES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004, 179, 2471-2482.	0.8	13
100	2-Amino-1-[bis(N,N-dimethylamino)phosphoramido]benzimidazole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, o1583-o1585.	0.2	1
101	Novel Synthesis of [1,2-a]Benzimidazolo-1,3,5,2-triazaphosphorines and [1,2-a]Benzimidazolo-1,3,5,2-triazaphosphorine-2-thiones.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
102	NOUVELLE SYNTHÈSE DE [1,2-A]BENZIMIDAZOLO-1,3,5,2-TRIAZAPHOSPHORINES ET DE [1,2-A]BENZIMIDAZOLO-1,3,5,2-TRIAZAPHOSPHORINE-2-THIONES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004, 179, 1387-1395.	0.8	23
103	Sandwich ² -Based Immunosensor for Electrochemical and Fluorescent Detection of F17-Positive Escherichia Coli and its F17A Fimbrial Protein. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0