

Luigi Falciola

List of Publications by Year in descending order

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91
papers

2,199
citations

186265

28
h-index

243625

44
g-index

94
all docs

94
docs citations

94
times ranked

2952
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Substituents on Functionalized 1,10-Phenanthroline in Controlling the Emission Properties of Cationic Iridium(III) Complexes of Interest for Electroluminescent Devices. <i>Inorganic Chemistry</i> , 2007, 46, 8533-8547.	4.0	164
2	Electronic Structure of Pure and N-Doped TiO ₂ Nanocrystals by Electrochemical Experiments and First Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6381-6391.	3.1	118
3	Electrochemical reduction of benzyl halides at a silver electrode. <i>Electrochimica Acta</i> , 2006, 51, 4956-4964.	5.2	117
4	Relevance of electron transfer mechanism in electrocatalysis: the reduction of organic halides at silver electrodes. <i>Chemical Communications</i> , 2006, , 344-346.	4.1	99
5	Novel N ^C N-cyclometallated platinum complexes with acetylide co-ligands as efficient phosphors for OLEDs. <i>Journal of Materials Chemistry</i> , 2012, 22, 10650.	6.7	81
6	Electrocatalysis and electron transfer mechanisms in the reduction of organic halides at Ag. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 2217-2225.	2.9	80
7	The solvent effect in the electrocatalytic reduction of organic bromides on silver. <i>Journal of Electroanalytical Chemistry</i> , 2006, 593, 47-56.	3.8	77
8	Building up an electrocatalytic activity scale of cathode materials for organic halide reductions. <i>Electrochimica Acta</i> , 2005, 50, 2331-2341.	5.2	69
9	Emerging pollutant mixture mineralization by TiO ₂ photocatalysts. The role of the water medium. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 60-66.	2.9	55
10	A detailed investigation of MnO ₂ nanorods to be grown onto activated carbon. High efficiency towards aqueous methyl orange adsorption/degradation. <i>Applied Surface Science</i> , 2019, 472, 118-126.	6.1	47
11	Spider-Like Oligothiophenes. <i>Chemistry - A European Journal</i> , 2008, 14, 459-471.	3.3	45
12	Gold nanoparticles modified graphene platforms for highly sensitive electrochemical detection of vitamin C in infant food and formulae. <i>Food Chemistry</i> , 2021, 344, 128692.	8.2	40
13	Electrochemical activity of thiahelicenes: Structure effects and electrooligomerization ability. <i>Electrochimica Acta</i> , 2009, 54, 5083-5097.	5.2	39
14	Efficiency of an Air Cleaner Device in Reducing Aerosol Particulate Matter (PM) in Indoor Environments. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 18.	2.6	38
15	Specific adsorption of bromide and iodide anions from nonaqueous solutions on controlled-surface polycrystalline silver electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 593, 185-193.	3.8	37
16	Investigation and optimization of photocurrent transient measurements on nano-TiO ₂ . <i>Journal of Applied Electrochemistry</i> , 2013, 43, 217-225.	2.9	37
17	Amphoteric, Prevaillingly Cationic L-arginine Polymers of Poly(amidoamino) Tj ETQq1 1 0.784314 rgBT /Over Cell-Permeating Characterizations. <i>Macromolecular Bioscience</i> , 2014, 14, 390-400.	4.1	36
18	Self-cleaning properties in engineered sensors for dopamine electroanalytical detection. <i>Analyst, The</i> , 2015, 140, 1486-1494.	3.5	36

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19	A new ferrocene conjugate of a tyrosine PNA monomer: synthesis and electrochemical properties. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 4791-4802.	1.8	35
20	Alkylsilane-SiO ₂ Hybrids. A Concerted Picture of Temperature Effects in Vapor Phase Functionalization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15390-15400.	3.1	35
21	The electrochemical activity of heteroatom-stabilized Fischer-type carbene complexes. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5777-5787.	1.8	34
22	New CNT/poly(brilliant green) and CNT/poly(3,4-ethylenedioxythiophene) based electrochemical enzyme biosensors. <i>Analytica Chimica Acta</i> , 2016, 927, 35-45.	5.4	33
23	A New Triferrocenyl-tris(hydroxymethyl)aminomethane Derivative as a Highly Sensitive Electrochemical Marker of Biomolecules: Application to the Labelling of PNA Monomers and Their Electrochemical Characterization. <i>Chemistry - A European Journal</i> , 2006, 12, 4091-4100.	3.3	32
24	Gene and Protein Expression in Response to Different Growth Temperatures and Oxygen Availability in <i>Burkholderia thailandensis</i> . <i>PLoS ONE</i> , 2014, 9, e93009.	2.5	31
25	Hazardous o-toluidine mineralization by photocatalytic bismuth doped ZnO slurries. <i>Chemical Communications</i> , 2015, 51, 10459-10462.	4.1	31
26	Novel Amphoteric Cystine-Based Poly(amidoamine)s Responsive to Redox Stimuli. <i>Macromolecules</i> , 2007, 40, 4785-4793.	4.8	30
27	Multi-Walled Carbon Nanotubes (MWCNTs) modified electrodes: Effect of purification and functionalization on the electroanalytical performances. <i>Electrochimica Acta</i> , 2014, 146, 403-410.	5.2	30
28	Electrochemical activity of new ferrocene-labelled PNA monomers to be applied for DNA detection: Effects of the molecular structure and of the solvent. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 197-205.	3.8	29
29	An effective multipurpose building block for 3D electropolymerisation: 2,2'-Bis(2,2'-bithiophene-5-yl)-3,3'-bithianaphthene. <i>Electrochimica Acta</i> , 2010, 55, 8352-8364.	5.2	29
30	Ascorbic acid-sensitized Au nanorods-functionalized nanostructured TiO ₂ transparent electrodes for photoelectrochemical genosensing. <i>Electrochimica Acta</i> , 2018, 276, 389-398.	5.2	29
31	Electrochemically assisted deposition of transparent, mechanically robust TiO ₂ films for advanced applications. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	27
32	Tailored routes for home-made Bi-doped ZnO nanoparticles. Photocatalytic performances towards o-toluidine, a toxic water pollutant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 534-545.	3.9	26
33	Atomistic Explanation for Interlayer Charge Transfer in Metal-Semiconductor Nanocomposites: The Case of Silver and Anatase. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5372-5377.	4.6	25
34	A Novel Diruthenium Acetylide Donor Complex as an Unusual Active Material for Bulk Heterojunction Solar Cells. <i>Organometallics</i> , 2011, 30, 1279-1282.	2.3	24
35	Chlorine Dioxide Degradation Issues on Metal and Plastic Water Pipes Tested in Parallel in a Semi-Closed System. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4582.	2.6	24
36	Novel polyamidoamine-based hydrogel with an innovative molecular architecture as a Co ²⁺ , Ni ²⁺ , and Cu ²⁺ -sorbing material: Cyclovoltammetry and extended X-ray absorption fine structure studies. <i>Journal of Polymer Science Part A</i> , 2006, 44, 2316-2327.	2.3	23

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37	Determination of selenium in Italian rices by differential pulse cathodic stripping voltammetry. <i>Food Chemistry</i> , 2007, 105, 1091-1098.	8.2	23
38	Characterization of polymer stabilized silver nanoparticles modified Glassy Carbon electrodes for electroanalytical applications. <i>Electrochimica Acta</i> , 2013, 109, 447-453.	5.2	23
39	Electrochemical sensors cleaned by light: a proof of concept for on site applications towards integrated monitoring systems. <i>RSC Advances</i> , 2015, 5, 71210-71214.	3.6	23
40	Synthesis, characterization and influence of poly(brilliant green) on the performance of different electrode architectures based on carbon nanotubes and poly(3,4-ethylenedioxythiophene). <i>Electrochimica Acta</i> , 2013, 98, 199-207.	5.2	21
41	Role of Pr on the Semiconductor Properties of Nanotitania. An Experimental and First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23083-23093.	3.1	19
42	Electrodeposited nano-titania films for photocatalytic Cr(VI) reduction. <i>Catalysis Today</i> , 2013, 209, 8-12.	4.4	19
43	Synthesis of Water Dispersible and Catalytically Active Gold-Decorated Cobalt Ferrite Nanoparticles. <i>Langmuir</i> , 2016, 32, 7117-7126.	3.5	19
44	Towards Molecular Design Rationalization in Branched Multi- π -Thiophene Semiconductors: The 2,2'-thienyl- π -substituted π - π -Oligothiophenes. <i>Chemistry - A European Journal</i> , 2010, 16, 9086-9098.	3.3	18
45	Block copolymers for the synthesis of pure and Bi-promoted nano-TiO ₂ as active photocatalysts. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	18
46	Platinum-Based and Carbon-Based Screen Printed Electrodes for the Determination of Benzidine by Differential Pulse Voltammetry. <i>Electroanalysis</i> , 2012, 24, 767-775.	2.9	17
47	Medium effects, comparability and predictability of pH-standards in aqueous+organic solvent mixtures: behavior of the (ethylene carbonate+water) and (propylene carbonate+water) systems. <i>Journal of Electroanalytical Chemistry</i> , 2001, 503, 153-158.	3.8	16
48	Direct measurement and modeling of spontaneous charge migration across anatase-brookite nanoheterojunctions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7782-7790.	10.3	14
49	A Nanostructured Matrices Assessment to Study Drug Distribution in Solid Tumor Tissues by Mass Spectrometry Imaging. <i>Nanomaterials</i> , 2017, 7, 71.	4.1	13
50	Square Wave Voltammetric detection of furan on platinum and platinum-based Screen Printed Electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2012, 664, 100-104.	3.8	12
51	Photo-mineralization of noxious o-toluidine water pollutant by nano-ZnO: The role of the oxide surface texture on the kinetic path. <i>Applied Catalysis B: Environmental</i> , 2015, 178, 233-240.	20.2	12
52	Ferrocene derivatives supported on poly(N-vinylpyrrolidin-2-one) (PVP): Synthesis of new water-soluble electrochemically active probes for biomolecules. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 1363-1371.	1.8	11
53	Title is missing!. <i>Journal of Solution Chemistry</i> , 2000, 29, 1199-1210.	1.2	10
54	Electrochemistry as a tool for nano-TiO ₂ deposition and for photoremediation pollutant monitoring. <i>Electrochemistry Communications</i> , 2010, 12, 1013-1016.	4.7	10

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55	Photo-renewable electroanalytical sensor for neurotransmitters detection in body fluid mimics. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7339-7349.	3.7	10
56	Zn- vs Bi-based oxides for o-toluidine photocatalytic treatment under solar light. <i>Environmental Science and Pollution Research</i> , 2017, 24, 8287-8296.	5.3	10
57	Cyclic Voltammetry Characterization of Au, Pd, and AuPd Nanoparticles Supported on Different Carbon Nanofibers. <i>Surfaces</i> , 2019, 2, 205-215.	2.3	10
58	Thermodynamics of the amalgam cells {Cs-amalgam CsX (m) AgX Ag} (X=Cl, Br, I) and primary medium effects in (methanol+water), (acetonitrile+water), and (1,4-dioxane+water) solvent mixtures. <i>Journal of Chemical Thermodynamics</i> , 2006, 38, 788-798.	2.0	9
59	Electrocatalytic activity of multiwalled carbon nanotubes decorated by silver nanoparticles for the detection of halothane. <i>Catalysis Today</i> , 2015, 249, 265-269.	4.4	9
60	Electrodes modified with sulphonated poly(aryl ether sulphone): effect of casting conditions on their enhanced electroanalytical performance.. <i>Electrochimica Acta</i> , 2016, 194, 405-412.	5.2	9
61	Au-Based Catalysts: Electrochemical Characterization for Structural Insights. <i>Molecules</i> , 2016, 21, 261.	3.8	8
62	Three-dimensional mesoporous silica networks with improved diffusion and interference-abating properties for electrochemical sensing. <i>Electrochimica Acta</i> , 2018, 291, 73-83.	5.2	8
63	A Combined XRD, Solvatochromic, and Cyclic Voltammetric Study of Poly (3,4-Ethylenedioxythiophene) Doped with Sulfonated Polyarylethersulfones: Towards New Conducting Polymers. <i>Polymers</i> , 2018, 10, 770.	4.5	8
64	Introducing the primary pH-metric standardization in nonaqueous solvents of extremely high permittivities: behaviour of the potassium hydrogen phthalate buffer in formamide, and acquisition of an appropriate salt bridge for pH measurements. <i>Electrochemistry Communications</i> , 2002, 4, 146-150.	4.7	7
65	Au Nanoparticles Decorated Graphene-Based Hybrid Nanocomposite for As(III) Electroanalytical Detection. <i>Chemosensors</i> , 2022, 10, 67.	3.6	7
66	Thermodynamics of the amalgam cells {M-Amalgam MCl or MCl ₂ (m) AgCl Ag} (M=Rb, Cs, Sr, Ba) and primary medium effects in (acetonitrile+water). <i>Journal of Chemical Thermodynamics</i> , 2004, 36, 465-471.	2.0	6
67	Determination of Primary and Secondary Standards and Characterization of Appropriate Salt Bridges for pH Measurements in Formamide. <i>Analytical Chemistry</i> , 2004, 76, 528-535.	6.5	6
68	Sprayed carbon nanotubes on Pyrolysed Photoresist Carbon Electrodes: Application to o-toluidine determination. <i>Electrochemistry Communications</i> , 2014, 48, 13-16.	4.7	6
69	Thermodynamics of the cell Pt H ₂ (p) HCl (m) AgCl Ag and primary medium effects upon HCl in (glycerol + water) solvents. <i>Journal of Chemical Thermodynamics</i> , 2001, 33, 499-512.	2.0	5
70	The Cosolvent Effect on the Transport Parameters of HCl in Aqueous + Organic Solvent Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 1565-1573.	1.9	5
71	Thermodynamic Study of the Aqueous (KCl + K ₂ SO ₄) Electrolyte Based on Potassium Amalgam Electrode Cells. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 211-216.	1.9	4
72	Thermodynamics of amalgam cells {M-amalgam MCl ₂ (m) AgCl Ag} (M=Sr, Ba) and primary medium effects in {methanol+water} and {ethanol+water} solvent mixtures. <i>Journal of Chemical Thermodynamics</i> , 2005, 37, 363-369.	2.0	4

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73	A thermodynamic study of the aqueous (sodium chloride+sodium hydroxide) electrolyte using sodium amalgam and thallos chloride electrode cells. <i>Journal of Chemical Thermodynamics</i> , 2003, 35, 405-416.	2.0	3
74	Determination of Primary and Secondary Standards for pH Measurements in N-Methylacetamide and Its 0.50 Mass Fraction in Admixture with Water, with Characterization of Appropriate Salt Bridges. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1595-1602.	1.9	3
75	A Determination of Standard Potentials and Related Primary pH Standards in the 50 Mass Percent (N-Methyl-2-Pyrrolidinone + Water) Mixture at Various Temperatures. <i>Journal of Solution Chemistry</i> , 2007, 36, 1037-1046.	1.2	3
76	Real surface area of catalytic silver electrodes: the "Subjective" molecular probe perspective. <i>Russian Journal of Electrochemistry</i> , 2008, 44, 104-112.	0.9	3
77	Electrochemical characterization of insulating silica-modified electrodes: Transport properties and physicochemical features. <i>Electrochemistry Communications</i> , 2017, 81, 102-105.	4.7	3
78	Nanostructured Photoelectrochemical Biosensing Platform for Cancer Biomarker Detection. <i>Procedia Technology</i> , 2017, 27, 144-145.	1.1	3
79	Ultra-Traces Detection by Gold-Based Electrodes in As(III) Novel Photoremediation. <i>Electrocatalysis</i> , 2013, 4, 306-311.	3.0	2
80	LC-MS analysis of nitroguanidine compounds by catalytic reduction using palladium modified graphitic carbon nitride catalyst. <i>Mikrochimica Acta</i> , 2021, 188, 152.	5.0	2
81	Medium Effects and Determination of Primary and Secondary Standards for pH Measurements in (Glycerol + Water) Solvent Media at Normal and Subzero Temperatures, With Characterization of Appropriate Salt Bridges. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 286-293.	1.9	1
82	Chemical Images on Fingerprints Revealed with Mass Spectrometry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5624.	2.5	1
83	Problems of Electrochemical Controls of Oxidation-Reduction Systems in Aqueous-Organic and Nonaqueous Media. The rH Index with Establishment of the Relevant Scales and Standards. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1605-1620.	1.0	1
84	Salivary glucose concentration and daily variation in the oral fluid of healthy patients. <i>Annali Di Stomatologia</i> , 2014, 5, 1-6.	0.6	1
85	Metal-free phthalimide-labeled peptide nucleic acids for electrochemical biosensing applications. <i>Electrochemical Science Advances</i> , 2022, 2, .	2.8	1
86	Ionization constants of phthalic acid in (propylene carbonate + water) and (ethylene carbonate +) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Thermodynamics</i> , 2001, 33, 1473-1483.	2.0	0
87	Sensing Interfaces: Self-Cleaning Materials for Electroanalytical Sensing. , 2021, , .		0
88	10.1007/s11175-008-1015-8. , 2010, 44, 104.		0
89	Advanced Materials for Electrode Modification in Sensoristic Applications for Trace Analysis. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 119-122.	0.4	0
90	rH-metric controls and primary standardization in aqueous-organic media. <i>Annali Di Chimica</i> , 2002, 92, 945-54.	0.6	0

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91	Problems in assessments of amalgam electrodes for standardising or certifying the corresponding ion selective electrodes. Annali Di Chimica, 2003, 93, 191-7.	0.6	0