

# Luigi Falciola

## List of Publications by Year in descending order

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91  
papers

2,199  
citations

186265

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243625

44  
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94  
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94  
docs citations

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times ranked

2952  
citing authors

#	ARTICLE	IF	CITATIONS
1	Au Nanoparticles Decorated Graphene-Based Hybrid Nanocomposite for As(III) Electroanalytical Detection. <i>Chemosensors</i> , 2022, 10, 67.	3.6	7
2	Metal-free phthalimide-labeled peptide nucleic acids for electrochemical biosensing applications. <i>Electrochemical Science Advances</i> , 2022, 2, .	2.8	1
3	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
4	Sensing Interfaces: Self-Cleaning Materials for Electroanalytical Sensing. , 2021, , .		0
5	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
6	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
7	Chemical Images on Fingerprints Revealed with Mass Spectrometry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5624.	2.5	1
8	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
9	Cyclic Voltammetry Characterization of Au, Pd, and AuPd Nanoparticles Supported on Different Carbon Nanofibers. <i>Surfaces</i> , 2019, 2, 205-215.	2.3	10
10	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
11	A detailed investigation of MnO <sub>2</sub> 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
12	Ascorbic acid-sensitized Au nanorods-functionalized nanostructured TiO <sub>2</sub> transparent electrodes for photoelectrochemical genosensing. <i>Electrochimica Acta</i> , 2018, 276, 389-398.	5.2	29
13	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
14	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
15	Electrochemical characterization of insulating silica-modified electrodes: Transport properties and physicochemical features. <i>Electrochemistry Communications</i> , 2017, 81, 102-105.	4.7	3
16	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
17	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
18	Nanostructured Photoelectrochemical Biosensing Platform for Cancer Biomarker Detection. <i>Procedia Technology</i> , 2017, 27, 144-145.	1.1	3

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19	Emerging pollutant mixture mineralization by TiO <sub>2</sub> photocatalysts. The role of the water medium. Photochemical and Photobiological Sciences, 2017, 16, 60-66.	2.9	55
20	Tailored routes for home-made Bi-doped ZnO nanoparticles. Photocatalytic performances towards o-toluidine, a toxic water pollutant. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 534-545.	3.9	26
21	A Nanostructured Matrices Assessment to Study Drug Distribution in Solid Tumor Tissues by Mass Spectrometry Imaging. Nanomaterials, 2017, 7, 71.	4.1	13
22	Au-Based Catalysts: Electrochemical Characterization for Structural Insights. Molecules, 2016, 21, 261.	3.8	8
23	Photo-renewable electroanalytical sensor for neurotransmitters detection in body fluid mimics. Analytical and Bioanalytical Chemistry, 2016, 408, 7339-7349.	3.7	10
24	New CNT/poly(brilliant green) and CNT/poly(3,4-ethylenedioxythiophene) based electrochemical enzyme biosensors. Analytica Chimica Acta, 2016, 927, 35-45.	5.4	33
25	Synthesis of Water Dispersible and Catalytically Active Gold-Decorated Cobalt Ferrite Nanoparticles. Langmuir, 2016, 32, 7117-7126.	3.5	19
26	Electrodes modified with sulphonated poly(aryl ether sulphone): effect of casting conditions on their enhanced electroanalytical performance.. Electrochimica Acta, 2016, 194, 405-412.	5.2	9
27	Electrochemical sensors cleaned by light: a proof of concept for on site applications towards integrated monitoring systems. RSC Advances, 2015, 5, 71210-71214.	3.6	23
28	Hazardous o-toluidine mineralization by photocatalytic bismuth doped ZnO slurries. Chemical Communications, 2015, 51, 10459-10462.	4.1	31
29	Self-cleaning properties in engineered sensors for dopamine electroanalytical detection. Analyst, The, 2015, 140, 1486-1494.	3.5	36
30	Alkylsilane-SiO <sub>2</sub> Hybrids. A Concerted Picture of Temperature Effects in Vapor Phase Functionalization. Journal of Physical Chemistry C, 2015, 119, 15390-15400.	3.1	35
31	Photo-mineralization of noxious o-toluidine water pollutant by nano-ZnO: The role of the oxide surface texture on the kinetic path. Applied Catalysis B: Environmental, 2015, 178, 233-240.	20.2	12
32	Electrocatalytic activity of multiwalled carbon nanotubes decorated by silver nanoparticles for the detection of halothane. Catalysis Today, 2015, 249, 265-269.	4.4	9
33	Advanced Materials for Electrode Modification in Sensoristic Applications for Trace Analysis. Lecture Notes in Electrical Engineering, 2015, , 119-122.	0.4	0
34	Gene and Protein Expression in Response to Different Growth Temperatures and Oxygen Availability in Burkholderia thailandensis. PLoS ONE, 2014, 9, e93009.	2.5	31
35	Sprayed carbon nanotubes on Pyrolysed Photoresist Carbon Electrodes: Application to o-toluidine determination. Electrochemistry Communications, 2014, 48, 13-16.	4.7	6
36	Amphoteric, Prevalingly Cationic L-arginine Polymers of Poly(amidoamino) Tj ETQq0 0 0 rgBT /Overlock 10 T Cell permeating Characterizations. Macromolecular Bioscience, 2014, 14, 390-400.	4.1	36

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37	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
38	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
39	Ultra-Traces Detection by Gold-Based Electrodes in As(III) Novel Photoremediation. <i>Electrocatalysis</i> , 2013, 4, 306-311.	3.0	2
40	Characterization of polymer stabilized silver nanoparticles modified Glassy Carbon electrodes for electroanalytical applications. <i>Electrochimica Acta</i> , 2013, 109, 447-453.	5.2	23
41	Electrochemically assisted deposition of transparent, mechanically robust TiO <sub>2</sub> films for advanced applications. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	27
42	Electrodeposited nano-titania films for photocatalytic Cr(VI) reduction. <i>Catalysis Today</i> , 2013, 209, 8-12.	4.4	19
43	Investigation and optimization of photocurrent transient measurements on nano-TiO <sub>2</sub> . <i>Journal of Applied Electrochemistry</i> , 2013, 43, 217-225.	2.9	37
44	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
45	Block copolymers for the synthesis of pure and Bi-promoted nano-TiO <sub>2</sub> as active photocatalysts. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	18
46	Novel N <sup>C</sup> 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
47	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
48	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
49	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
50	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
51	Electronic Structure of Pure and N-Doped TiO <sub>2</sub> Nanocrystals by Electrochemical Experiments and First Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6381-6391.	3.1	118
52	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
53	Towards Molecular Design Rationalization in Branched Multi-Thiophene Semiconductors: The 2-Thienyl-Substituted $\pi$ -Oligothiophenes. <i>Chemistry - A European Journal</i> , 2010, 16, 9086-9098.	3.3	18
54	Electrochemistry as a tool for nano-TiO <sub>2</sub> deposition and for photoremediation pollutant monitoring. <i>Electrochemistry Communications</i> , 2010, 12, 1013-1016.	4.7	10

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55	10.1007/s11175-008-1015-8. , 2010, 44, 104.		0
56	Electrocatalysis and electron transfer mechanisms in the reduction of organic halides at Ag. Journal of Applied Electrochemistry, 2009, 39, 2217-2225.	2.9	80
57	Electrochemical activity of thiahelicenes: Structure effects and electrooligomerization ability. Electrochimica Acta, 2009, 54, 5083-5097.	5.2	39
58	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. Journal of Chemical & Engineering Data, 2009, 54, 286-293.	1.9	1
59	Spider-Like Oligothiophenes. Chemistry - A European Journal, 2008, 14, 459-471.	3.3	45
60	Real surface area of catalytic silver electrodes: the "Subjective" molecular probe perspective. Russian Journal of Electrochemistry, 2008, 44, 104-112.	0.9	3
61	The Role of Substituents on Functionalized 1,10-Phenanthroline in Controlling the Emission Properties of Cationic Iridium(III) Complexes of Interest for Electroluminescent Devices. Inorganic Chemistry, 2007, 46, 8533-8547.	4.0	164
62	Novel Amphoteric Cystine-Based Poly(amidoamine)s Responsive to Redox Stimuli. Macromolecules, 2007, 40, 4785-4793.	4.8	30
63	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. Journal of Chemical & Engineering Data, 2007, 52, 1595-1602.	1.9	3
64	Determination of selenium in Italian rices by differential pulse cathodic stripping voltammetry. Food Chemistry, 2007, 105, 1091-1098.	8.2	23
65	Ferrocene derivatives supported on poly(N-vinylpyrrolidin-2-one) (PVP): Synthesis of new water-soluble electrochemically active probes for biomolecules. Journal of Organometallic Chemistry, 2007, 692, 1363-1371.	1.8	11
66	A Determination of Standard Potentials and Related Primary pH Standards in the 50 Mass Percent (N-Methyl-2-Pyrrolidinone + Water) Mixture at Various Temperatures. Journal of Solution Chemistry, 2007, 36, 1037-1046.	1.2	3
67	Relevance of electron transfer mechanism in electrocatalysis: the reduction of organic halides at silver electrodes. Chemical Communications, 2006, , 344-346.	4.1	99
68	Novel polyamidoamine-based hydrogel with an innovative molecular architecture as a Co <sup>2+</sup> , Ni <sup>2+</sup> , and Cu <sup>2+</sup> -sorbing material: Cyclic voltammetry and extended X-ray absorption fine structure studies. Journal of Polymer Science Part A, 2006, 44, 2316-2327.	2.3	23
69	Electrochemical reduction of benzyl halides at a silver electrode. Electrochimica Acta, 2006, 51, 4956-4964.	5.2	117
70	The solvent effect in the electrocatalytic reduction of organic bromides on silver. Journal of Electroanalytical Chemistry, 2006, 593, 47-56.	3.8	77
71	Specific adsorption of bromide and iodide anions from nonaqueous solutions on controlled-surface polycrystalline silver electrodes. Journal of Electroanalytical Chemistry, 2006, 593, 185-193.	3.8	37
72	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. Journal of Chemical Thermodynamics, 2006, 38, 788-798.	2.0	9

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73	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
74	The electrochemical activity of heteroatom-stabilized Fischer-type carbene complexes. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5777-5787.	1.8	34
75	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
76	Thermodynamics of amalgam cells {M-amalgam   MCl <sub>2</sub> (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
77	Building up an electrocatalytic activity scale of cathode materials for organic halide reductions. <i>Electrochimica Acta</i> , 2005, 50, 2331-2341.	5.2	69
78	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
79	Thermodynamics of the amalgam cells {M-Amalgam   MCl or MCl <sub>2</sub> (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
80	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
81	The Cosolvent Effect on the Transport Parameters of HCl in Aqueous + Organic Solvent Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , 2004, 49, 1565-1573.	1.9	5
82	A thermodynamic study of the aqueous (sodium chloride+sodium hydroxide) electrolyte using sodium amalgam and thalious chloride electrode cells. <i>Journal of Chemical Thermodynamics</i> , 2003, 35, 405-416.	2.0	3
83	Thermodynamic Study of the Aqueous (KCl + K <sub>2</sub> SO <sub>4</sub> ) Electrolyte Based on Potassium Amalgam Electrode Cells. <i>Journal of Chemical &amp; Engineering Data</i> , 2003, 48, 211-216.	1.9	4
84	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
85	Problems in assessments of amalgam electrodes for standardising or certifying the corresponding ion selective electrodes. <i>Annali Di Chimica</i> , 2003, 93, 191-7.	0.6	0
86	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
87	rH-metric controls and primary standardization in aqueous-organic media. <i>Annali Di Chimica</i> , 2002, 92, 945-54.	0.6	0
88	Thermodynamics of the cell Pt   H <sub>2</sub> (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
89	Ionization constants of phthalic acid in (propylene carbonate + water) and (ethylene carbonate + water) systems. <i>Journal of Chemical Thermodynamics</i> , 2001, 33, 1473-1483.	2.0	0
90	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

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91	Title is missing!. Journal of Solution Chemistry, 2000, 29, 1199-1210.	1.2	10