

Erika Scavetta

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,556
citations

136950

32
h-index

206112

48
g-index

71
all docs

71
docs citations

71
times ranked

2980
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective detection of dopamine with an all PEDOT:PSS Organic Electrochemical Transistor. Scientific Reports, 2016, 6, 35419.	3.3	125
2	Electrochemical Deposition of Nanomaterials for Electrochemical Sensing. Sensors, 2019, 19, 1186.	3.8	119
3	Physical and Electrochemical Properties of PEDOT:PSS as a Tool for Controlling Cell Growth. ACS Applied Materials & Interfaces, 2015, 7, 17993-18003.	8.0	109
4	Electrosynthesis of Thin Films of Ni, Al Hydrotalcite Like Compounds. Chemistry of Materials, 2007, 19, 4523-4529.	6.7	100
5	Layered-double-hydroxide-modified electrodes: electroanalytical applications. Analytical and Bioanalytical Chemistry, 2013, 405, 603-614.	3.7	97
6	Glyphosate and glufosinate detection at electrogenerated NiAl-LDH thin films. Analytica Chimica Acta, 2009, 654, 97-102.	5.4	88
7	A simple all-PEDOT:PSS electrochemical transistor for ascorbic acid sensing. Journal of Materials Chemistry B, 2015, 3, 6753-6762.	5.8	80
8	Electrochemical characterisation of Ni/Al _{1-x} X hydrotalcites and their electrocatalytic behaviour. Electrochimica Acta, 2002, 47, 2451-2461.	5.2	73
9	Electrochemical behaviour of thin films of Co/Al layered double hydroxide prepared by electrodeposition. Electrochimica Acta, 2009, 54, 1027-1033.	5.2	69
10	PEDOT: Dye-Based, Flexible Organic Electrochemical Transistor for Highly Sensitive pH Monitoring. ACS Applied Materials & Interfaces, 2018, 10, 22474-22484.	8.0	69
11	Sulfate-selective electrodes based on hydrotalcites. Analytica Chimica Acta, 2001, 439, 265-272.	5.4	62
12	A novel potentiometric sensor for l-ascorbic acid based on molecularly imprinted polypyrrole. Electrochimica Acta, 2011, 56, 7149-7154.	5.2	61
13	Electrocatalytic oxidation of salicylic acid by a cobalt hydrotalcite-like compound modified Pt electrode. Biosensors and Bioelectronics, 2011, 26, 3200-3206.	10.1	56
14	Advanced Wound Dressing for Real-Time pH Monitoring. ACS Sensors, 2021, 6, 2366-2377.	7.8	54
15	Stretchable Low Impedance Electrodes for Bioelectronic Recording from Small Peripheral Nerves. Scientific Reports, 2019, 9, 10598.	3.3	51
16	Electrodeposited glucose oxidase/anionic clay for glucose biosensors design. Analytica Chimica Acta, 2006, 577, 98-106.	5.4	49
17	Iron vs Aluminum Based Layered Double Hydroxides as Water Splitting Catalysts. Electrochimica Acta, 2016, 188, 653-660.	5.2	49
18	Electrodeposition of a nickel-based hydrotalcite on Pt nanoparticles for ethanol and glucose sensing. Electrochemistry Communications, 2007, 9, 2838-2842.	4.7	46

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19	Textile sensors platform for the selective and simultaneous detection of chloride ion and pH in sweat. <i>Scientific Reports</i> , 2020, 10, 17180.	3.3	46
20	Textile Chemical Sensors Based on Conductive Polymers for the Analysis of Sweat. <i>Polymers</i> , 2021, 13, 894.	4.5	43
21	Combined Use of Synchrotronâ€Radiationâ€Based Imaging Techniques for the Characterization of Structured Catalysts. <i>Advanced Functional Materials</i> , 2010, 20, 4117-4126.	14.9	40
22	Novel Rh-based structured catalysts for the catalytic partial oxidation of methane. <i>Catalysis Today</i> , 2010, 157, 183-190.	4.4	40
23	A Cheap Amperometric and Optical Sensor for Glucose Determination. <i>Electroanalysis</i> , 2010, 22, 427-432.	2.9	39
24	Layered Double Hydroxide-Modified Organic Electrochemical Transistor for Glucose and Lactate Biosensing. <i>Sensors</i> , 2020, 20, 3453.	3.8	39
25	Electrochemical sensors based on electrodes modified with synthetic hydrotalcites. <i>Electrochimica Acta</i> , 2006, 51, 2129-2134.	5.2	38
26	Dopamine amperometric detection at a ferrocene clicked PEDOT:PSS coated electrode. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2861-2867.	5.8	38
27	Nickel hexacyanoferrate membrane as a coated wire cation-selective electrode. <i>Analyst</i> , The, 2001, 126, 2168-2171.	3.5	36
28	[Ni/Alâ€Cl]-based hydrotalcite electrodes as amperometric sensors: preparation and electrochemical study. <i>Electrochimica Acta</i> , 2001, 46, 2681-2692.	5.2	35
29	Organic-based sensor for chemical detection in aqueous solution. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	35
30	An insight into the electrochemical behavior of Co/Al layered double hydroxide thin films prepared by electrodeposition. <i>Journal of Power Sources</i> , 2012, 201, 360-367.	7.8	35
31	Electrodeposition of Layered Double Hydroxides on platinum: Insights into the reactions sequence. <i>Electrochimica Acta</i> , 2015, 152, 75-83.	5.2	35
32	Newly developed electrochemical synthesis of Co-based layered double hydroxides: toward noble metal-free electro-catalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11241-11249.	10.3	34
33	AC impedance study of a synthetic hydrotalcite-like compound modified electrode in aqueous solution. <i>Electrochimica Acta</i> , 2003, 48, 1347-1355.	5.2	30
34	All poly(3,4-ethylenedioxythiophene) organic electrochemical transistor to amplify amperometric signals. <i>Electrochimica Acta</i> , 2018, 268, 476-483.	5.2	30
35	A planar impedance sensor for 3D spheroids. <i>Lab on A Chip</i> , 2018, 18, 933-943.	6.0	30
36	Glucose Biosensors Based on Electrodes Modified with Ferrocene Derivatives Intercalated into Mg/Al Layered Double Hydroxides. <i>Electroanalysis</i> , 2007, 19, 2321-2327.	2.9	29

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37	Co/Al layered double hydroxide coated electrode for in flow amperometric detection of sugars. <i>Electrochimica Acta</i> , 2015, 173, 67-75.	5.2	29
38	Ni/Al Layered Double Hydroxide and Carbon Nanomaterial Composites for Glucose Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 143-155.	5.0	29
39	Synthesis and Characterization of Layered Double Hydroxides as Materials for Electrocatalytic Applications. <i>Nanomaterials</i> , 2021, 11, 725.	4.1	28
40	Analytical performances of Ni LDH films electrochemically deposited on Pt surfaces: Phenol and glucose detection. <i>Journal of Electroanalytical Chemistry</i> , 2014, 722-723, 15-22.	3.8	26
41	A deeper insight into the operation regime of all-polymeric electrochemical transistors. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	25
42	Role of Fe in the oxidation of methanol electrocatalyzed by Ni based layered double hydroxides: X-ray spectroscopic and electrochemical studies. <i>RSC Advances</i> , 2016, 6, 110976-110985.	3.6	24
43	Electrochemically synthesized cobalt redox active layered double hydroxides for supercapacitors development. <i>Applied Clay Science</i> , 2017, 143, 151-158.	5.2	24
44	Nanoparticle gated semiconducting polymer for a new generation of electrochemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 834-841.	7.8	24
45	Improvement in the coating homogeneity in electrosynthesized Rh structured catalysts for the partial oxidation of methane. <i>Catalysis Today</i> , 2015, 246, 154-164.	4.4	22
46	Anti-interferent Properties of Oxidized Nickel Based on Layered Double Hydroxide in Glucose Amperometric Biosensors. <i>Electroanalysis</i> , 2008, 20, 2199-2204.	2.9	21
47	A Wearable Electrochemical Gas Sensor for Ammonia Detection. <i>Sensors</i> , 2021, 21, 7905.	3.8	21
48	Amperometric Sensors Based on Synthetic Hydrotalcites and Their Application for Ethanol Detection in Beer. <i>Electroanalysis</i> , 2005, 17, 363-370.	2.9	20
49	Electrosynthesis of Ni/Al layered double hydroxide and reduced graphene oxide composites for the development of hybrid capacitors. <i>Electrochimica Acta</i> , 2021, 365, 137294.	5.2	19
50	Organic Electrochemical Transistors as Versatile Analytical Potentiometric Sensors. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 354.	4.1	17
51	Different Electrochemical Sensor Designs Based on Diazonium Salts and Gold Nanoparticles for Pico Molar Detection of Metals. <i>Molecules</i> , 2020, 25, 3903.	3.8	17
52	Design of an electrochemically gated organic semiconductor for pH sensing. <i>Electrochemistry Communications</i> , 2020, 116, 106763.	4.7	17
53	Electrochemical Pretreatment of Pt Surface: Modification with Co/Al Layered Double Hydroxide for Analytical Applications. <i>Electroanalysis</i> , 2012, 24, 857-864.	2.9	16
54	Electrochemical characterization of self assembled monolayers on flexible electrodes. <i>Electrochimica Acta</i> , 2012, 65, 159-164.	5.2	15

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55	Reactions involved in the electrodeposition of hydrotalcite-type compounds on FeCrAlloy foams and plates. <i>Electrochimica Acta</i> , 2016, 222, 1335-1344.	5.2	15
56	Effect of the Synthesis Route and Fe Presence on the Redox Activity of Ni in Layered Double Hydroxides. <i>ChemElectroChem</i> , 2016, 3, 1320-1328.	3.4	14
57	Microscopic Determination of Carrier Density and Mobility in Working Organic Electrochemical Transistors. <i>Small</i> , 2019, 15, e1902534.	10.0	14
58	A simple and industrially scalable method for making a PANI-modified cellulose touch sensor. <i>Carbohydrate Polymers</i> , 2021, 254, 117304.	10.2	14
59	Nanoporous Ge electrode as a template for nano-sized (<math>< < < 5 \text{ nm}< /math>< /sup>) Au aggregates. <i>Nanotechnology</i> , 2012, 23, 395604.	2.6	13
60	Optoelectronic properties of nanoporous Ge layers investigated by surface photovoltage spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2014, 196, 175-178.	4.4	11
61	Wireless Textile Moisture Sensor for Wound Care. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	11
62	Transient-doped organic electrochemical transistors working in current-enhancing mode as sensing devices for low concentration of oxygen dissolved in solution. <i>APL Materials</i> , 2020, 8, .	5.1	10
63	Needle-type organic electrochemical transistor for spatially resolved detection of dopamine. <i>Mikrochimica Acta</i> , 2020, 187, 378.	5.0	10
64	A New pH Sensor Based on a Glassy Carbon Electrode Coated with a Co/Al Layered Double Hydroxide. <i>Electroanalysis</i> , 2011, 23, 1745-1751.	2.9	8
65	Electrochemical Approach for the Production of Layered Double Hydroxides with a Well-Defined Co/Me^{III} Ratio. <i>Chemistry - A European Journal</i> , 2019, 25, 16301-16310.	3.3	7
66	Nanoporous Ge coated by Au nanoparticles for electrochemical application. <i>Electrochemistry Communications</i> , 2013, 30, 83-86.	4.7	6
67	Oxygen Gas Sensing Using a Hydrogel-Based Organic Electrochemical Transistor for Work Safety Applications. <i>Polymers</i> , 2022, 14, 1022.	4.5	6
68	Electrosynthesis and characterization of Layered Double Hydroxides on different supports. <i>Applied Clay Science</i> , 2021, 202, 105949.	5.2	5
69	Nanostructured Copper-Based Electrodes Electrochemically Synthesized on a Carbonaceous Gas Diffusion Membrane with Catalytic Activity for the Electroreduction of CO₂. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57451-57461.	8.0	5
70	Cyclopentadienone-â€NHC iron(0) complexes as low valent electrocatalysts for water oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 1407-1418.	4.1	4
71	All PEDOT:PSS devices as low cost wearable chemical sensors. , 0, , .		0