

# Boris Lakard

## List of Publications by Year in descending order

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85  
papers

2,552  
citations

136950

32  
h-index

214800

47  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2988  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia gas sensor based on electrosynthesized polypyrrole films. <i>Talanta</i> , 2009, 78, 199-206.	5.5	142
2	Urea potentiometric biosensor based on modified electrodes with urease immobilized on polyethylenimine films. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1641-1647.	10.1	129
3	Electrochemical Biosensing of Dopamine Neurotransmitter: A Review. <i>Biosensors</i> , 2021, 11, 179.	4.7	98
4	Effect of electrolyte solvent on the morphology of polypyrrole films: Application to the use of polypyrrole in pH sensors. <i>Synthetic Metals</i> , 2008, 158, 453-461.	3.9	97
5	Electrochemical Biosensors Based on Conducting Polymers: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6614.	2.5	91
6	Urea potentiometric enzymatic biosensor based on charged biopolymers and electrodeposited polyaniline. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4139-4145.	10.1	88
7	Potentiometric miniaturized pH sensors based on polypyrrole films. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 101-108.	7.8	87
8	Characterization of the surface properties of polypyrrole films: Influence of electrodeposition parameters. <i>Synthetic Metals</i> , 2011, 161, 2498-2505.	3.9	74
9	Ammonia gas sensors based on polypyrrole films: Influence of electrodeposition parameters. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 431-439.	7.8	68
10	Potentiometric pH sensors based on electrodeposited polymers. <i>Polymer</i> , 2005, 46, 12233-12239.	3.8	65
11	Effect of various parameters on the conductivity of free standing electrosynthesized polypyrrole films. <i>Synthetic Metals</i> , 2010, 160, 2180-2185.	3.9	58
12	Quantitative self-powered electrochromic biosensors. <i>Chemical Science</i> , 2017, 8, 1995-2002.	7.4	58
13	Gas Sensors Based on Electrodeposited Polymers. <i>Metals</i> , 2015, 5, 1371-1386.	2.3	56
14	Retention of Cu(II) and Ni(II) polyaminocarboxylate complexes by ultrafiltration assisted with polyamines. <i>Desalination</i> , 2010, 258, 87-92.	8.2	54
15	Multi-analyte determination of dopamine and catechol at single-walled carbon nanotubes conducting polymer Tyrosinase based electrochemical biosensors. <i>Journal of Electroanalytical Chemistry</i> , 2015, 744, 53-61.	3.8	53
16	Miniaturized pH biosensors based on electrochemically modified electrodes with biocompatible polymers. <i>Biosensors and Bioelectronics</i> , 2004, 19, 595-606.	10.1	52
17	Development of Amperometric Biosensors Based on Nanostructured Tyrosinase-Conducting Polymer Composite Electrodes. <i>Sensors</i> , 2013, 13, 6759-6774.	3.8	51
18	Electrochromic biosensors based on screen-printed Prussian Blue electrodes. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 591-597.	7.8	46

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19	Flexible Sensors Based on Conductive Polymers. <i>Chemosensors</i> , 2022, 10, 97.	3.6	45
20	Polyelectrolyte modification of ultrafiltration membrane for removal of copper ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 435, 170-177.	4.7	43
21	Full characterization of polypyrrole thin films electrosynthesized in room temperature ionic liquids, water or acetonitrile. <i>Electrochimica Acta</i> , 2014, 137, 298-310.	5.2	43
22	Morphological and adhesive properties of polypyrrole films synthesized by sonoelectrochemical technique. <i>Synthetic Metals</i> , 2010, 160, 2540-2545.	3.9	42
23	Doping properties of PEDOT films electrosynthesized under high frequency ultrasound irradiation. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 140-148.	8.2	39
24	Ab initio study of the polymerization mechanism of poly(p-phenylenediamine). <i>Computational and Theoretical Chemistry</i> , 2003, 638, 177-187.	1.5	38
25	Elaboration and characterization of polyaniline films electrodeposited on tin oxides. <i>Synthetic Metals</i> , 2011, 161, 2162-2169.	3.9	38
26	pH Sensing at Pt Electrode Surfaces Coated with Linear Polyethylenimine from Anodic Polymerization of Ethylenediamine. <i>Journal of the Electrochemical Society</i> , 2001, 148, E435.	2.9	37
27	Microstructured electrodeposited polypyrrole-phthalocyanine hybrid material, from morphology to ammonia sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 25246.	6.7	37
28	Elaboration of ammonia gas sensors based on electrodeposited polypyrrole-Cobalt phthalocyanine hybrid films. <i>Talanta</i> , 2013, 117, 45-54.	5.5	37
29	Use of sinusoidal voltages with fixed frequency in the preparation of tyrosinase based electrochemical biosensors for dopamine electroanalysis. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 801-809.	7.8	36
30	Adsorption of Ni(II) ions on colloidal hybrid organic-inorganic silica composites. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 93, 1-7.	5.0	34
31	Ab initio study of amino acids containing hydroxy groups (serine, threonine and tyrosine). <i>Computational and Theoretical Chemistry</i> , 2004, 681, 183-189.	1.5	33
32	In situ electrodeposition of biocomposite materials by sinusoidal voltages on microelectrodes array for tyrosinase based amperometric biosensor development. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 136-143.	7.8	32
33	Application of original assemblies of polyelectrolytes, urease and electrodeposited polyaniline as sensitive films of potentiometric urea biosensors. <i>Electrochimica Acta</i> , 2014, 148, 53-61.	5.2	32
34	Development of miniaturized pH biosensors based on electrosynthesized polymer films. <i>Analytica Chimica Acta</i> , 2007, 597, 313-321.	5.4	29
35	Theoretical study of the vibrational spectra of polyethylenimine and polypropylenimine. <i>Computational and Theoretical Chemistry</i> , 2004, 685, 83-87.	1.5	28
36	Charge properties of membranes modified by multilayer polyelectrolyte adsorption. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 221-227.	9.4	28

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37	Ab initio study of the electronic and structural properties of the crystalline polyethyleneimine polymer. <i>Journal of Chemical Physics</i> , 2004, 120, 9376-9382.	3.0	26
38	Surface modification of p-Si by a polyethylenimine coating: influence of the surface pre-treatment. Application to a potentiometric transducer as pH sensor. <i>Electrochimica Acta</i> , 2002, 47, 2597-2602.	5.2	25
39	Synthesis and characterization of polyaniline-silica composites: Raspberry vs core-shell structures. Where do we stand?. <i>Journal of Colloid and Interface Science</i> , 2017, 502, 184-192.	9.4	24
40	Effects of polypyrrole modified electrode functionalization on potentiometric pH responses. <i>Synthetic Metals</i> , 2010, 160, 1073-1080.	3.9	22
41	Investigation of pharmaceutically active ionic liquids as electrolyte for the electrosynthesis of polypyrrole and active component in controlled drug delivery. <i>Electrochimica Acta</i> , 2016, 211, 950-961.	5.2	21
42	A straightforward procedure for the synthesis of silica@polyaniline core-shell nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 573, 237-245.	4.7	21
43	Synthesis of polymer materials for use as cell culture substrates. <i>Electrochimica Acta</i> , 2007, 53, 1114-1126.	5.2	20
44	Morphological characterization and analytical application of poly(3,4-ethylenedioxythiophene)@Prussian blue composite films electrodeposited in situ on platinum electrode chips. <i>Thin Solid Films</i> , 2011, 519, 7754-7762.	1.8	20
45	Novel in situ electrochemical deposition of platinum nanoparticles by sinusoidal voltages on conducting polymer films. <i>Synthetic Metals</i> , 2012, 162, 193-198.	3.9	20
46	Preparation of polyelectrolyte-modified membranes for heavy metal ions removal. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2476-2485.	2.2	20
47	Ab initio study of the electrochemical polymerization mechanism of 1,2-diamines. <i>Journal of Chemical Physics</i> , 2001, 115, 7219-7226.	3.0	19
48	Characterization of charge properties of an ultrafiltration membrane modified by surface grafting of poly(allylamine) hydrochloride. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 335-340.	9.4	19
49	Electrochemically deposited polyethyleneimine films and their characterization. <i>Synthetic Metals</i> , 2010, 160, 1359-1364.	3.9	18
50	Investigation of Polycarbazoles Thin Films Prepared by Electrochemical Oxidation of Synthesized Carbazole Derivatives. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	17
51	Functionalization of organic membranes by polyelectrolyte multilayer assemblies: Application to the removal of copper ions from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2012, 376, 202-208.	9.4	16
52	From the Solution Processing of Hydrophilic Molecules to Polymer-Phthalocyanine Hybrid Materials for Ammonia Sensing in High Humidity Atmospheres. <i>Sensors</i> , 2014, 14, 13476-13495.	3.8	15
53	Fully-printed and silicon free self-powered electrochromic biosensors: Towards naked eye quantification. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127535.	7.8	15
54	Ab initio and DFT study of aliphatic diamines. <i>Computational and Theoretical Chemistry</i> , 2002, 584, 15-36.	1.5	13

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55	Glow discharge optical emission spectroscopy: a complementary technique to analyze thin electrodeposited polyaniline films. <i>Thin Solid Films</i> , 2014, 550, 27-35.	1.8	12
56	Electrosynthesis and characterization of polymer films on silicon substrates for applications in micromanipulation. <i>Synthetic Metals</i> , 2012, 162, 2370-2378.	3.9	11
57	Elaboration and characterization of carboxylic acid-functionalized polypyrrole films. <i>Synthetic Metals</i> , 2016, 220, 247-254.	3.9	11
58	Electrochemical preparation and physicochemical study of polymers obtained from carbazole and N-((methoxycarbonyl)methyl)carbazole. <i>Synthetic Metals</i> , 2020, 270, 116584.	3.9	10
59	Ab initio study of the electrochemical polymerization mechanism leading from DETA to PEI. <i>Computational and Theoretical Chemistry</i> , 2002, 593, 133-141.	1.5	9
60	Fabrication of a miniaturized cell using microsystem technologies for electrochemical applications. <i>Electrochimica Acta</i> , 2005, 50, 1863-1869.	5.2	9
61	Towards carboxylic acid-functionalized aniline monomers: Chemical synthesis, electropolymerization and characterization. <i>Progress in Organic Coatings</i> , 2016, 99, 429-436.	3.9	9
62	Use of Modified Colloids and Membranes to Remove Metal Ions from Contaminated Solutions. <i>Colloids and Interfaces</i> , 2018, 2, 19.	2.1	9
63	Flexible and conductive multilayer films based on the assembly of PEDOT:PSS and water soluble polythiophenes. <i>Organic Electronics</i> , 2017, 46, 263-269.	2.6	8
64	Poly(allylamine) plasma polymer coatings for an efficient retention of Ni(II) ions by ultrafiltration membranes. <i>Plasma Processes and Polymers</i> , 2019, 16, 1800134.	3.0	8
65	Predictive tools for selection of appropriate polyelectrolyte multilayer film for the functionalization of organic membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 486, 153-160.	4.7	7
66	Influence of pre-grafted pyrrole-based silane on the electrodeposition and chemical properties of polypyrrole films. <i>Synthetic Metals</i> , 2018, 246, 220-229.	3.9	7
67	pH-Responsive PEG/PAA Multilayer Assemblies for Reversible Adhesion of Micro-Objects. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5646-5653.	4.4	7
68	Characterization of an ultrafiltration membrane modified by sorption of branched polyethyleneimine. <i>Desalination and Water Treatment</i> , 2009, 1, 186-193.	1.0	6
69	PEDOT-PSS based 2-in-1 step-by-step films: A refined study. <i>Synthetic Metals</i> , 2014, 194, 38-46.	3.9	6
70	Self-assembly of polyelectrolytes for the removal of metal cations from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 763-769.	6.7	6
71	Electrodeposition Behavior, Physicochemical Properties and Corrosion Resistance of Ni-Co Coating Modified by Gelatin Additive. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 1059-1069.	1.1	6
72	Chemical and biological sensors based on modified electrodes with electropolymerized diamines. , 2001, , 561-571.		6

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73	In vitro induction of differentiation by retinoic acid in an immortalized olfactory neuronal cell line. <i>Acta Histochemica</i> , 2007, 109, 111-121.	1.8	5
74	Novel strategy to prepare polyaniline-Modified SiO <sub>2</sub> /TiO <sub>2</sub> composite particles. <i>Synthetic Metals</i> , 2013, 181, 104-109.	3.9	5
75	Development of new sticky and conducting polymer surfaces for MEMS applications. <i>Synthetic Metals</i> , 2021, 276, 116757.	3.9	5
76	Investigation of electrochemical oxidative coupling of 3 and 6 substituted carbazoles. <i>Journal of Electroanalytical Chemistry</i> , 2021, 894, 115356.	3.8	5
77	Combined elastic neutron scattering experiments and molecular dynamics simulations on the concentrated liquid electrolyte NaAlH <sub>4</sub> -3.3NH <sub>3</sub> . <i>Journal of Molecular Liquids</i> , 2003, 108, 1-19.	4.9	4
78	Evaluation of Adhesion Forces for the Manipulation of Micro-Objects in Submerged Environment through Deposition of pH Responsive Polyelectrolyte Layers. <i>Langmuir</i> , 2016, 32, 102-111.	3.5	3
79	Elaboration of thin colloidal silica films with controlled thickness and wettability. <i>Comptes Rendus Chimie</i> , 2016, 19, 665-673.	0.5	3
80	Conductive multilayer film based on composite materials made of conjugated polyelectrolytes and inorganic particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124290.	4.7	3
81	Elaboration of Transparent Polymeric Films Trapping Copper Ions by Complexation. <i>Journal of the Electrochemical Society</i> , 2004, 151, C245.	2.9	1
82	Electrochemical polymerization of 1,2-ethanedithiol as a new way to synthesize polyethylenedisulfide. <i>Polymer</i> , 2008, 49, 1743-1747.	3.8	1
83	Investigation of polycarbazoles thin films prepared by electrochemical oxidation of 3- and 9-substituted carbazoles. <i>Progress in Organic Coatings</i> , 2022, 162, 106563.	3.9	1
84	Electrodeposited Copolymer Films with Tunable Conductivity. <i>Electrochem</i> , 2020, 1, 358-366.	3.3	0
85	Electrodeposition and Characterization of Conducting Polymer Films Obtained from Carbazole and 2-(9H-carbazol-9-yl)acetic Acid. <i>Electrochem</i> , 2022, 3, 322-336.	3.3	0