

# Vincent Noel

## List of Publications by Year in descending order

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77  
papers

2,339  
citations

185998

28  
h-index

233125

45  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleation and growth of poly(3,4-ethylenedioxythiophene) in acetonitrile on platinum under potentiostatic conditions. <i>Journal of Electroanalytical Chemistry</i> , 1999, 472, 103-111.	1.9	208
2	Detection of Glutamate and Acetylcholine with Organic Electrochemical Transistors Based on Conducting Polymer/Platinum Nanoparticle Composites. <i>Advanced Materials</i> , 2014, 26, 5658-5664.	11.1	142
3	Electrolytic Gated Organic Field-Effect Transistors for Application in Biosensors – A Review. <i>Electronics (Switzerland)</i> , 2016, 5, 9.	1.8	119
4	Inkjet Printing: A New Fabrication Technology for Organic Transistors. <i>Advanced Materials Technologies</i> , 2017, 2, 1700063.	3.0	106
5	Grafting of Diazonium Salts on Surfaces: Application to Biosensors. <i>Biosensors</i> , 2020, 10, 4.	2.3	102
6	Label-free electrochemical detection of prostate-specific antigen based on nucleic acid aptamer. <i>Biosensors and Bioelectronics</i> , 2015, 68, 49-54.	5.3	76
7	Tunable Electrochemical Switches Based on Ultrathin Organic Films. <i>Journal of the American Chemical Society</i> , 2007, 129, 1890-1891.	6.6	75
8	The development of a reagentless lactate biosensor based on a novel conducting polymer. <i>Bioelectrochemistry</i> , 2006, 68, 218-226.	2.4	56
9	Label-free DNA electrochemical sensor based on a PNA-functionalized conductive polymer. <i>Talanta</i> , 2008, 76, 206-210.	2.9	55
10	Investigations of the steric effect on electrochemical transduction in a quinone-based DNA sensor. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3126-3131.	5.3	53
11	Nanometric Layers for Direct, Signal-On, Selective, and Sensitive Electrochemical Detection of Oligonucleotides Hybridization. <i>Journal of the American Chemical Society</i> , 2008, 130, 15752-15753.	6.6	52
12	DNA Electrochemical Sensor Based on Conducting Polymer: Dependence of the "Signal-On" Detection on the Probe Sequence Localization. <i>Analytical Chemistry</i> , 2005, 77, 3351-3356.	3.2	51
13	Electrochemical impedance spectroscopy of an oxidized poly(3,4-ethylenedioxythiophene) in propylene carbonate solutions. <i>Journal of Electroanalytical Chemistry</i> , 2003, 558, 41-48.	1.9	47
14	Electrochemical Switches Based on Ultrathin Organic Films: From Diode-like Behavior to Charge Transfer Transparency. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18638-18643.	1.5	46
15	Simple and Highly Enantioselective Electrochemical Aptamer-Based Binding Assay for Trace Detection of Chiral Compounds. <i>Analytical Chemistry</i> , 2012, 84, 5415-5420.	3.2	46
16	Comparison of Electrochemical Immunosensors and Aptasensors for Detection of Small Organic Molecules in Environment, Food Safety, Clinical and Public Security. <i>Biosensors</i> , 2016, 6, 7.	2.3	45
17	Selectivity and sensitivity of a reagentless electrochemical DNA sensor studied by square wave voltammetry and fluorescence. <i>Bioelectrochemistry</i> , 2006, 69, 172-179.	2.4	42
18	Electrochemical kinetic analysis of a 1,4-hydroxynaphthoquinone self-assembled monolayer. <i>Journal of Electroanalytical Chemistry</i> , 2008, 622, 37-43.	1.9	38

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19	Peptide-modified electrolyte-gated organic field effect transistor. Application to Cu <sup>2+</sup> detection. <i>Biosensors and Bioelectronics</i> , 2019, 127, 118-125.	5.3	36
20	Composite films of iron(III) hexacyanoferrate and poly(3,4-ethylenedioxythiophene): electrosynthesis and properties. <i>Journal of Electroanalytical Chemistry</i> , 2000, 489, 46-54.	1.9	35
21	Challenges, Prospects, and Emerging Applications of Inkjet-Printed Electronics: A Chemist's Point of View. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	35
22	Cyclic voltammetric studies of the relaxation processes during the oxidation of poly(3,4-ethylenedioxythiophene) in propylene carbonate solution. <i>Journal of Electroanalytical Chemistry</i> , 2003, 542, 33-38.	1.9	34
23	Molecular Dynamics Simulation of a RNA Aptasensor. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4071-4080.	1.2	34
24	Label-free and reagentless electrochemical detection of PCR fragments using self-assembled quinone derivative monolayer: Application to <i>Mycobacterium tuberculosis</i> . <i>Biosensors and Bioelectronics</i> , 2012, 32, 163-168.	5.3	33
25	Grafting of a peptide probe for Prostate-Specific Antigen detection using diazonium electroreduction and click chemistry. <i>Biosensors and Bioelectronics</i> , 2016, 81, 131-137.	5.3	33
26	Triggering the Electrolyte-Gated Organic Field-Effect Transistor output characteristics through gate functionalization using diazonium chemistry: Application to biodetection of 2,4-dichlorophenoxyacetic acid. <i>Biosensors and Bioelectronics</i> , 2018, 113, 32-38.	5.3	33
27	Multianalytical Study of the Binding between a Small Chiral Molecule and a DNA Aptamer: Evidence for Asymmetric Steric Effect upon 3'- versus 5'-End Sequence Modification. <i>Analytical Chemistry</i> , 2016, 88, 11963-11971.	3.2	31
28	Switchable Hydrogel-Gated Organic Field-Effect Transistors. <i>Langmuir</i> , 2018, 34, 3686-3693.	1.6	30
29	Hydroxynaphthoquinone Ultrathin Films Obtained by Diazonium Electroreduction: Toward Design of Biosensitive Electroactive Interfaces. <i>Analytical Chemistry</i> , 2010, 82, 3523-3530.	3.2	29
30	Functionalization of single-walled carbon nanotubes for direct and selective electrochemical detection of DNA. <i>Analyst</i> , 2011, 136, 1023-1028.	1.7	29
31	Versatile transduction scheme based on electrolyte-gated organic field-effect transistor used as immunoassay readout system. <i>Biosensors and Bioelectronics</i> , 2017, 92, 215-220.	5.3	27
32	Enzyme-less electrochemical displacement heterogeneous immunosensor for diclofenac detection. <i>Biosensors and Bioelectronics</i> , 2017, 97, 246-252.	5.3	27
33	Recent Advances in Skin Chemical Sensors. <i>Sensors</i> , 2019, 19, 4376.	2.1	26
34	Characterization of the instability of 4-mercaptoaniline capped platinum nanoparticles solution by combining LB technique and X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2006, 252, 2422-2431.	3.1	25
35	Kinetic Rotating Droplet Electrochemistry: A Simple and Versatile Method for Reaction Progress Kinetic Analysis in Microliter Volumes. <i>Journal of the American Chemical Society</i> , 2013, 135, 14215-14228.	6.6	25
36	Investigation of the charge effect on the electrochemical transduction in a quinone-based DNA sensor. <i>Electrochimica Acta</i> , 2008, 54, 346-351.	2.6	23

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37	Redox-assisted hydrogen bonding within interpenetrating conducting polymer networks for charge-storage materials. <i>Electrochemistry Communications</i> , 2012, 19, 32-35.	2.3	23
38	Interpenetrating organic conducting polymer composites based on polyaniline and poly(3,4-ethylenedioxythiophene) from sequential electropolymerization. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 157-166.	1.9	22
39	All-Inkjet-Printed Graphene-Gated Organic Electrochemical Transistors on Polymeric Foil as Highly Sensitive Enzymatic Biosensors. <i>ACS Applied Nano Materials</i> , 2022, 5, 1664-1673.	2.4	22
40	General approach for electrochemical detection of persistent pharmaceutical micropollutants: Application to acetaminophen. <i>Biosensors and Bioelectronics</i> , 2015, 72, 205-210.	5.3	20
41	Simultaneous Electroreduction of Different Diazonium Salts for Direct Electrochemical DNA Biosensor Development. <i>Electrochimica Acta</i> , 2014, 140, 49-58.	2.6	19
42	Fractal dimension of the active zone for a p-doped poly(3,4-ethylenedioxythiophene) modified electrode towards a ferrocene probe. <i>Journal of Electroanalytical Chemistry</i> , 2002, 521, 107-116.	1.9	17
43	Design of a new electrogenerated polyquinone film substituted with glutathione. Towards direct electrochemical biosensors. <i>Talanta</i> , 2010, 80, 1318-1325.	2.9	17
44	Direct and rapid electrochemical immunosensing system based on a conducting polymer. <i>Talanta</i> , 2010, 82, 608-612.	2.9	17
45	Medium Effects on the Nucleation and Growth Mechanisms during the Redox Switching Dynamics of Conducting Polymers: Case of Poly(3,4-ethylenedioxythiophene). <i>Journal of Physical Chemistry B</i> , 2011, 115, 205-216.	1.2	17
46	Applications of carbon nanotubes to electrochemical DNA sensors: a new strategy to make direct and selective hybridization detection from SWNTs. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2010, 1, 045011.	0.7	16
47	Electrolyte-gated organic field-effect transistors (EGOFETs) as complementary tools to electrochemistry for the study of surface processes. <i>Electrochemistry Communications</i> , 2019, 98, 43-46.	2.3	16
48	Anomalous diffusion on the active zone of p-doped poly(3,4-ethylenedioxythiophene) modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 556, 35-42.	1.9	15
49	A DNA hydrogel gated organic field effect transistor. <i>Organic Electronics</i> , 2019, 75, 105402.	1.4	15
50	Nanocomposite Langmuir-Blodgett films based on crown derivatized platinum nanoparticles: Synthesis, characterization, and electrical properties. <i>Thin Solid Films</i> , 2008, 517, 755-763.	0.8	14
51	Electrocatalytic (Bio)Nanostructures Based on Polymer-Grafted Platinum Nanoparticles for Analytical Purpose. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14747-14755.	4.0	13
52	Self-Assembly of Nanoparticles from Evaporating Sessile Droplets: Fresh Look into the Role of Particle/Substrate Interaction. <i>Langmuir</i> , 2020, 36, 11411-11421.	1.6	13
53	Gold nanoparticle-based eco-friendly ink for electrode patterning on flexible substrates. <i>Electrochemistry Communications</i> , 2021, 123, 106918.	2.3	13
54	Monitoring photosynthetic microorganism activity with an electrolyte-gated organic field effect transistor. <i>Biosensors and Bioelectronics</i> , 2020, 157, 112166.	5.3	12

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55	Electrochemistry at capped platinum nanoparticle Langmuir Blodgett films: A study of the influence of platinum amount and of number of LB layers. <i>Electrochimica Acta</i> , 2007, 52, 2285-2293.	2.6	10
56	Electrochemical investigation of interactions between quinone derivatives and single stranded DNA. <i>Electrochimica Acta</i> , 2012, 85, 588-593.	2.6	9
57	Rational Design of a Redox-Labeled Chiral Target for an Enantioselective Aptamer-Based Electrochemical Binding Assay. <i>Chemistry - A European Journal</i> , 2014, 20, 2953-2959.	1.7	9
58	Nernst-Planck-Poisson analysis of electrolyte-gated organic field-effect transistors. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 415101.	1.3	9
59	Water-soluble polymer-grafted platinum nanoparticles for the subsequent binding of enzymes. synthesis and SANS. <i>Journal of Polymer Science Part A</i> , 2012, 50, 289-296.	2.5	8
60	Morphological Control of Linear Particle Deposits from the Drying of Inkjet-Printed Rivulets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4559-4563.	2.1	8
61	Self-Assembly of Gold Nanoparticles with Oppositely Charged, Long, Linear Chains of Periodic Copolymers. <i>Journal of Physical Chemistry B</i> , 2020, 124, 900-908.	1.2	7
62	All-Inkjet-Printed Humidity Sensors for the Detection of Relative Humidity in Air and Soil-Towards the Direct Fabrication on Plant Leaves. <i>MRS Advances</i> , 2020, 5, 965-973.	0.5	7
63	Algae-functionalized hydrogel-gated organic field-effect transistor. Application to the detection of herbicides. <i>Electrochimica Acta</i> , 2021, 372, 137881.	2.6	7
64	Copper Nanoparticles with a Tunable Size: Implications for Plasmonic Catalysis. <i>ACS Applied Nano Materials</i> , 2022, 5, 2839-2847.	2.4	7
65	Hybrid platinum nanoparticle ensemble for the electrocatalytic oxidation of H <sub>2</sub> O <sub>2</sub> : Toward nanostructured biosensor design. <i>Electrochemistry Communications</i> , 2013, 28, 118-121.	2.3	6
66	Optimization of Experimental Parameters to Explore Small-Ligand/Aptamer Interactions through Use of <sup>1</sup> H-NMR Spectroscopy and Molecular Modeling. <i>Chemistry - A European Journal</i> , 2015, 21, 15740-15748.	1.7	6
67	Printed Dielectrophoretic Electrode-Based Continuous Flow Microfluidic Systems for Particles 3D-Trapping. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2000235.	1.2	6
68	Electronic transfer through Langmuir-Blodgett layers of capped platinum nanoparticles: An electrochemical approach. <i>Electrochimica Acta</i> , 2006, 51, 6076-6080.	2.6	5
69	Electrochemical generation of stable copper nanowires with quantized conductance in DNA media. <i>Electrochemistry Communications</i> , 2011, 13, 272-274.	2.3	5
70	An electroactive conjugated oligomer for a direct electrochemical DNA sensor. <i>Synthetic Metals</i> , 2012, 162, 1496-1502.	2.1	4
71	Nanodomains of Juglonethiol on Au(111): Relationship between Domain Size and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29015-29026.	1.5	4
72	Computational Studies of a DNA-Based Aptasensor: toward Theory-Driven Transduction Improvement. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9499-9506.	1.2	3

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73	DNA and PNA Probes for DNA Detection in Electroanalytical Systems. RNA Technologies, 2015, , 47-80.	0.2	2
74	Challenges, Prospects, and Emerging Applications of Inkjet-Printed Electronics: A Chemist's Point of View. Angewandte Chemie, 0, , .	1.6	2
75	Label Free DNA Sensors Using PNA Probe Sequence and Electroactive Self-Assembled Monolayer Application to PCR Fragments of Mycobacterium Tuberculosis. ECS Meeting Abstracts, 2011, , .	0.0	0
76	DNA for Non-nucleic Acid Sensing. RNA Technologies, 2015, , 81-106.	0.2	0
77	Driving Electrolyte-Gated Organic Field-Effect Transistors with Redox Reactions. , 2020, 60, .		0