

# Vincent Noel

## List of Publications by Citations

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72  
papers

1,897  
citations

26  
h-index

41  
g-index

78  
ext. papers

2,088  
ext. citations

6.5  
avg, IF

4.89  
L-index

#	Paper	IF	Citations
72	Nucleation and growth of poly(3,4-ethylenedioxythiophene) in acetonitrile on platinum under potentiostatic conditions. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 472, 103-111	4.1	191
71	Detection of glutamate and acetylcholine with organic electrochemical transistors based on conducting polymer/platinum nanoparticle composites. <i>Advanced Materials</i> , <b>2014</b> , 26, 5658-64	24	125
70	Electrolytic Gated Organic Field-Effect Transistors for Application in Biosensors: A Review. <i>Electronics (Switzerland)</i> , <b>2016</b> , 5, 9	2.6	88
69	Inkjet-Printing: A New Fabrication Technology for Organic Transistors. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700063	6.8	72
68	Tunable electrochemical switches based on ultrathin organic films. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1890-1	16.4	68
67	Label-free electrochemical detection of prostate-specific antigen based on nucleic acid aptamer. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 68, 49-54	11.8	66
66	Grafting of Diazonium Salts on Surfaces: Application to Biosensors. <i>Biosensors</i> , <b>2020</b> , 10,	5.9	60
65	Label-free DNA electrochemical sensor based on a PNA-functionalized conductive polymer. <i>Talanta</i> , <b>2008</b> , 76, 206-10	6.2	49
64	Investigations of the steric effect on electrochemical transduction in a quinone-based DNA sensor. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 3126-31	11.8	49
63	Nanometric layers for direct, signal-on, selective, and sensitive electrochemical detection of oligonucleotides hybridization. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15752-3	16.4	48
62	Electrochemical Switches Based on Ultrathin Organic Films: From Diode-like Behavior to Charge Transfer Transparency. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18638-18643	3.8	46
61	DNA electrochemical sensor based on conducting polymer: dependence of the "signal-on" detection on the probe sequence localization. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 3351-6	7.8	46
60	The development of a reagentless lactate biosensor based on a novel conducting polymer. <i>Bioelectrochemistry</i> , <b>2006</b> , 68, 218-26	5.6	46
59	Electrochemical impedance spectroscopy of an oxidized poly(3,4-ethylenedioxythiophene) in propylene carbonate solutions. <i>Journal of Electroanalytical Chemistry</i> , <b>2003</b> , 558, 41-48	4.1	45
58	Simple and highly enantioselective electrochemical aptamer-based binding assay for trace detection of chiral compounds. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5415-20	7.8	44
57	Selectivity and sensitivity of a reagentless electrochemical DNA sensor studied by square wave voltammetry and fluorescence. <i>Bioelectrochemistry</i> , <b>2006</b> , 69, 172-9	5.6	37
56	Electrochemical kinetic analysis of a 1,4-hydroxynaphthoquinone self-assembled monolayer. <i>Journal of Electroanalytical Chemistry</i> , <b>2008</b> , 622, 37-43	4.1	36

55	Composite films of iron(III) hexacyanoferrate and poly(3,4-ethylenedioxythiophene): electrosynthesis and properties. <i>Journal of Electroanalytical Chemistry</i> , <b>2000</b> , 489, 46-54	4.1	34
54	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> , <b>2003</b> , 542, 33-38	4.1	33
53	Comparison of Electrochemical Immunosensors and Aptasensors for Detection of Small Organic Molecules in Environment, Food Safety, Clinical and Public Security. <i>Biosensors</i> , <b>2016</b> , 6,	5.9	33
52	Label-free and reagentless electrochemical detection of PCR fragments using self-assembled quinone derivative monolayer: application to Mycobacterium tuberculosis. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 32, 163-8	11.8	28
51	Functionalization of single-walled carbon nanotubes for direct and selective electrochemical detection of DNA. <i>Analyst, The</i> , <b>2011</b> , 136, 1023-8	5	28
50	Molecular Dynamics Simulation of a RNA Aptasensor. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 4071-4080	3.9	27
49	Hydroxynaphthoquinone ultrathin films obtained by diazonium electroreduction: toward design of biosensitive electroactive interfaces. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3523-30	7.8	27
48	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> , <b>2018</b> , 113, 32-38	11.8	26
47	Grafting of a peptide probe for Prostate-Specific Antigen detection using diazonium electroreduction and click chemistry. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 81, 131-137	11.8	26
46	Peptide-modified electrolyte-gated organic field effect transistor. Application to Cu detection. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 127, 118-125	11.8	25
45	Switchable Hydrogel-Gated Organic Field-Effect Transistors. <i>Langmuir</i> , <b>2018</b> , 34, 3686-3693	4	24
44	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> , <b>2006</b> , 252, 2422-2431	6.7	24
43	Versatile transduction scheme based on electrolyte-gated organic field-effect transistor used as immunoassay readout system. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 92, 215-220	11.8	23
42	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> , <b>2016</b> , 88, 11963-11971	7.8	22
41	Enzyme-less electrochemical displacement heterogeneous immunosensor for diclofenac detection. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 97, 246-252	11.8	21
40	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> , <b>2013</b> , 135, 14215-28	16.4	21
39	Recent Advances in Skin Chemical Sensors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	20
38	Investigation of the charge effect on the electrochemical transduction in a quinone-based DNA sensor. <i>Electrochimica Acta</i> , <b>2008</b> , 54, 346-351	6.7	20

37	Redox-assisted hydrogen bonding within interpenetrating conducting polymer networks for charge-storage materials. <i>Electrochemistry Communications</i> , <b>2012</b> , 19, 32-35	5.1	19
36	Interpenetrating organic conducting polymer composites based on polyaniline and poly(3,4-ethylenedioxythiophene) from sequential electropolymerization. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 585, 157-166	4.1	19
35	General approach for electrochemical detection of persistent pharmaceutical micropollutants: Application to acetaminophen. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 72, 205-10	11.8	18
34	Design of a new electrogenerated polyquinone film substituted with glutathione. Towards direct electrochemical biosensors. <i>Talanta</i> , <b>2010</b> , 80, 1318-25	6.2	17
33	Simultaneous Electroreduction of Different Diazonium Salts for Direct Electrochemical DNA Biosensor Development. <i>Electrochimica Acta</i> , <b>2014</b> , 140, 49-58	6.7	16
32	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> , <b>2011</b> , 115, 205-16	3.4	16
31	Direct and rapid electrochemical immunosensing system based on a conducting polymer. <i>Talanta</i> , <b>2010</b> , 82, 608-12	6.2	15
30	Anomalous diffusion on the active zone of p-doped poly(3,4-ethylenedioxythiophene) modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2003</b> , 556, 35-42	4.1	14
29	Electrolyte-gated organic field-effect transistors (EGOFETs) as complementary tools to electrochemistry for the study of surface processes. <i>Electrochemistry Communications</i> , <b>2019</b> , 98, 43-46	5.1	14
28	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> , <b>2010</b> , 1, 045011	1.6	13
27	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> , <b>2002</b> , 521, 107-116	4.1	13
26	Nanocomposite LangmuirBlodgett films based on crown derivatized platinum nanoparticles: Synthesis, characterization, and electrical properties. <i>Thin Solid Films</i> , <b>2008</b> , 517, 755-763	2.2	12
25	A DNA hydrogel gated organic field effect transistor. <i>Organic Electronics</i> , <b>2019</b> , 75, 105402	3.5	11
24	Electrocatalytic (Bio)Nanostructures Based on Polymer-Grafted Platinum Nanoparticles for Analytical Purpose. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14747-55	9.5	11
23	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> , <b>2007</b> , 52, 2285-2293	6.7	10
22	Monitoring photosynthetic microorganism activity with an electrolyte-gated organic field effect transistor. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 157, 112166	11.8	8
21	Rational design of a redox-labeled chiral target for an enantioselective aptamer-based electrochemical binding assay. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 2953-9	4.8	8
20	Water-soluble polymer-grafted platinum nanoparticles for the subsequent binding of enzymes. synthesis and SANS. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 289-296	2.5	8

19	Electrochemical investigation of interactions between quinone derivatives and single stranded DNA. <i>Electrochimica Acta</i> , <b>2012</b> , 85, 588-593	6.7	7
18	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> , <b>2013</b> , 28, 118-121	5.1	6
17	Nernst-Planck-Poisson analysis of electrolyte-gated organic field-effect transistors. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 415101	3	6
16	Morphological Control of Linear Particle Deposits from the Drying of Inkjet-Printed Rivulets. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4559-4563	6.4	5
15	Optimization of Experimental Parameters to Explore Small-Ligand/Aptamer Interactions through Use of (1) H NMR Spectroscopy and Molecular Modeling. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15740-15748	4.8	5
14	Electronic transfer through Langmuir-Blodgett layers of capped platinum nanoparticles: An electrochemical approach. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 6076-6080	6.7	5
13	Self-Assembly of Gold Nanoparticles with Oppositely Charged, Long, Linear Chains of Periodic Copolymers. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 900-908	3.4	5
12	Nanodomains of Juglonethiol on Au(111): Relationship between Domain Size and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 29015-29026	3.8	4
11	An electroactive conjugated oligomer for a direct electrochemical DNA sensor. <i>Synthetic Metals</i> , <b>2012</b> , 162, 1496-1502	3.6	4
10	Electrochemical generation of stable copper nanowires with quantized conductance in DNA media. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 272-274	5.1	4
9	Self-Assembly of Nanoparticles from Evaporating Sessile Droplets: Fresh Look into the Role of Particle/Substrate Interaction. <i>Langmuir</i> , <b>2020</b> , 36, 11411-11421	4	4
8	Algae-functionalized hydrogel-gated organic field-effect transistor. Application to the detection of herbicides. <i>Electrochimica Acta</i> , <b>2021</b> , 372, 137881	6.7	4
7	All-Inkjet-Printed Graphene-Gated Organic Electrochemical Transistors on Polymeric Foil as Highly Sensitive Enzymatic Biosensors. <i>ACS Applied Nano Materials</i> ,	5.6	3
6	Gold nanoparticle-based eco-friendly ink for electrode patterning on flexible substrates. <i>Electrochemistry Communications</i> , <b>2021</b> , 123, 106918	5.1	3
5	DNA and PNA Probes for DNA Detection in Electroanalytical Systems. <i>RNA Technologies</i> , <b>2015</b> , 47-80	0.2	2
4	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> , <b>2020</b> , 5, 965-973	0.7	1
3	Printed Dielectrophoretic Electrode-Based Continuous Flow Microfluidic Systems for Particles 3D-Trapping. <i>Particle and Particle Systems Characterization</i> , <b>2021</b> , 38, 2000235	3.1	0
2	Computational Studies of a DNA-Based Aptasensor: toward Theory-Driven Transduction Improvement. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 9499-9506	3.4	0

1 DNA for Non-nucleic Acid Sensing. *RNA Technologies*, **2015**, 81-106

0.2