Vincent Noel

List of Publications by Year in Descending Order

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	Algae-functionalized hydrogel-gated organic field-effect transistor. Application to the detection of herbicides. *Electrochimica Acta*, **2021**, 372, 137881	6.7	4
71	Nernst–Planck–Poisson analysis of electrolyte-gated organic field-effect transistors. *Journal Physics D: Applied Physics*, **2021**, 54, 415101	3	6
70	Printed Dielectrophoretic Electrode-Based Continuous Flow Microfluidic Systems for Particles 3D-Trapping. *Particle and Particle Systems Characterization*, **2021**, 38, 2000235	3.1	0
69	Gold nanoparticle-based eco-friendly ink for electrode patterning on flexible substrates. *Electrochemistry Communications*, **2021**, 123, 106918	5.1	3
68	Computational Studies of a DNA-Based Aptasensor: toward Theory-Driven Transduction Improvement. *Journal of Physical Chemistry B*, **2021**, 125, 9499-9506	3.4	0
67	Morphological Control of Linear Particle Deposits from the Drying of Inkjet-Printed Rivulets. *Journal of Physical Chemistry Letters*, **2020**, 11, 4559-4563	6.4	5
66	Grafting of Diazonium Salts on Surfaces: Application to Biosensors. *Biosensors*, **2020**, 10,	5.9	60
65	All-Inkjet-Printed Humidity Sensors for the Detection of Relative Humidity in Air and Soil Towards the Direct Fabrication on Plant Leaves. *MRS Advances*, **2020**, 5, 965-973	0.7	1
64	Monitoring photosynthetic microorganism activity with an electrolyte-gated organic field effect transistor. *Biosensors and Bioelectronics*, **2020**, 157, 112166	11.8	8
63	Self-Assembly of Gold Nanoparticles with Oppositely Charged, Long, Linear Chains of Periodic Copolymers. *Journal of Physical Chemistry B*, **2020**, 124, 900-908	3.4	5
62	Self-Assembly of Nanoparticles from Evaporating Sessile Droplets: Fresh Look into the Role of Particle/Substrate Interaction. *Langmuir*, **2020**, 36, 11411-11421	4	4
61	A DNA hydrogel gated organic field effect transistor. *Organic Electronics*, **2019**, 75, 105402	3.5	11
60	Recent Advances in Skin Chemical Sensors. *Sensors*, **2019**, 19,	3.8	20
59	Peptide-modified electrolyte-gated organic field effect transistor. Application to Cu detection. *Biosensors and Bioelectronics*, **2019**, 127, 118-125	11.8	25
58	Electrolyte-gated organic field-effect transistors (EGOFETs) as complementary tools to electrochemistry for the study of surface processes. *Electrochemistry Communications*, **2019**, 98, 43-46	5.1	14
57	Triggering the Electrolyte-Gated Organic Field-Effect Transistor output characteristics through gate functionalization using diazonium chemistry: Application to biodetection of 2,4-dichlorophenoxyacetic acid. *Biosensors and Bioelectronics*, **2018**, 113, 32-38	11.8	26
56	Switchable Hydrogel-Gated Organic Field-Effect Transistors. *Langmuir*, **2018**, 34, 3686-3693	4	24

55	Versatile transduction scheme based on electrolyte-gated organic field-effect transistor used as immunoassay readout system. *Biosensors and Bioelectronics*, **2017**, 92, 215-220	11.8	23
54	Enzyme-less electrochemical displacement heterogeneous immunosensor for diclofenac detection. *Biosensors and Bioelectronics*, **2017**, 97, 246-252	11.8	21
53	Molecular Dynamics Simulation of a RNA Aptasensor. *Journal of Physical Chemistry B*, **2017**, 121, 4071-4080	3.4	27
52	Inkjet-Printing: A New Fabrication Technology for Organic Transistors. *Advanced Materials Technologies*, **2017**, 2, 1700063	6.8	72
51	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. *Analytical Chemistry*, **2016**, 88, 11963-11971	7.8	22
50	Grafting of a peptide probe for Prostate-Specific Antigen detection using diazonium electroreduction and click chemistry. *Biosensors and Bioelectronics*, **2016**, 81, 131-137	11.8	26
49	Comparison of Electrochemical Immunosensors and Aptasensors for Detection of Small Organic Molecules in Environment, Food Safety, Clinical and Public Security. *Biosensors*, **2016**, 6,	5.9	33
48	Electrolytic Gated Organic Field-Effect Transistors for Application in Biosensors□A Review. *Electronics (Switzerland)*, **2016**, 5, 9	2.6	88
47	Electrocatalytic (Bio)Nanostructures Based on Polymer-Grafted Platinum Nanoparticles for Analytical Purpose. *ACS Applied Materials & Interfaces*, **2016**, 8, 14747-55	9.5	11
46	DNA for Non-nucleic Acid Sensing. *RNA Technologies*, **2015**, 81-106	0.2	
45	General approach for electrochemical detection of persistent pharmaceutical micropollutants: Application to acetaminophen. *Biosensors and Bioelectronics*, **2015**, 72, 205-10	11.8	18
44	DNA and PNA Probes for DNA Detection in Electroanalytical Systems. *RNA Technologies*, **2015**, 47-80	0.2	2
43	Nanodomains of Juglonethiol on Au(111): Relationship between Domain Size and Electrochemical Properties. *Journal of Physical Chemistry C*, **2015**, 119, 29015-29026	3.8	4
42	Optimization of Experimental Parameters to Explore Small-Ligand/Aptamer Interactions through Use of (1) H NMR Spectroscopy and Molecular Modeling. *Chemistry - A European Journal*, **2015**, 21, 15740-8	4.8	5
41	Label-free electrochemical detection of prostate-specific antigen based on nucleic acid aptamer. *Biosensors and Bioelectronics*, **2015**, 68, 49-54	11.8	66
40	Simultaneous Electroreduction of Different Diazonium Salts for Direct Electrochemical DNA Biosensor Development. *Electrochimica Acta*, **2014**, 140, 49-58	6.7	16
39	Detection of glutamate and acetylcholine with organic electrochemical transistors based on conducting polymer/platinum nanoparticle composites. *Advanced Materials*, **2014**, 26, 5658-64	24	125
38	Rational design of a redox-labeled chiral target for an enantioselective aptamer-based electrochemical binding assay. *Chemistry - A European Journal*, **2014**, 20, 2953-9	4.8	8

37	Kinetic rotating droplet electrochemistry: a simple and versatile method for reaction progress kinetic analysis in microliter volumes. *Journal of the American Chemical Society*, **2013**, 135, 14215-28	16.4	21
36	Hybrid platinum nanoparticle ensemble for the electrocatalytic oxidation of H2O2: Toward nanostructured biosensor design. *Electrochemistry Communications*, **2013**, 28, 118-121	5.1	6
35	Redox-assisted hydrogen bonding within interpenetrating conducting polymer networks for charge-storage materials. *Electrochemistry Communications*, **2012**, 19, 32-35	5.1	19
34	Label-free and reagentless electrochemical detection of PCR fragments using self-assembled quinone derivative monolayer: application to Mycobacterium tuberculosis. *Biosensors and Bioelectronics*, **2012**, 32, 163-8	11.8	28
33	Simple and highly enantioselective electrochemical aptamer-based binding assay for trace detection of chiral compounds. *Analytical Chemistry*, **2012**, 84, 5415-20	7.8	44
32	Electrochemical investigation of interactions between quinone derivatives and single stranded DNA. *Electrochimica Acta*, **2012**, 85, 588-593	6.7	7
31	An electroactive conjugated oligomer for a direct electrochemical DNA sensor. *Synthetic Metals*, **2012**, 162, 1496-1502	3.6	4
30	Water-soluble polymer-grafted platinum nanoparticles for the subsequent binding of enzymes. synthesis and SANS. *Journal of Polymer Science Part A*, **2012**, 50, 289-296	2.5	8
29	Functionalization of single-walled carbon nanotubes for direct and selective electrochemical detection of DNA. *Analyst, The*, **2011**, 136, 1023-8	5	28
28	Medium effects on the nucleation and growth mechanisms during the redox switching dynamics of conducting polymers: case of poly(3,4-ethylenedioxythiophene). *Journal of Physical Chemistry B*, **2011**, 115, 205-16	3.4	16
27	Electrochemical generation of stable copper nanowires with quantized conductance in DNA media. *Electrochemistry Communications*, **2011**, 13, 272-274	5.1	4
26	Hydroxynaphthoquinone ultrathin films obtained by diazonium electroreduction: toward design of biosensitive electroactive interfaces. *Analytical Chemistry*, **2010**, 82, 3523-30	7.8	27
25	Applications of carbon nanotubes to electrochemical DNA sensors: a new strategy to make direct and selective hybridization detection from SWNTs. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2010**, 1, 045011	1.6	13
24	Design of a new electrogenerated polyquinone film substituted with glutathione. Towards direct electrochemical biosensors. *Talanta*, **2010**, 80, 1318-25	6.2	17
23	Direct and rapid electrochemical immunosensing system based on a conducting polymer. *Talanta*, **2010**, 82, 608-12	6.2	15
22	Label-free DNA electrochemical sensor based on a PNA-functionalized conductive polymer. *Talanta* , **2008**, 76, 206-10	6.2	49
21	Nanometric layers for direct, signal-on, selective, and sensitive electrochemical detection of oligonucleotides hybridization. *Journal of the American Chemical Society*, **2008**, 130, 15752-3	16.4	48
20	Electrochemical Switches Based on Ultrathin Organic Films: From Diode-like Behavior to Charge Transfer Transparency. *Journal of Physical Chemistry C*, **2008**, 112, 18638-18643	3.8	46

19	Electrochemical kinetic analysis of a 1,4-hydroxynaphthoquinone self-assembled monolayer. *Journal of Electroanalytical Chemistry*, **2008**, 622, 37-43	4.1	36
18	Nanocomposite LangmuirBlodgett films based on crown derivatized platinum nanoparticles: Synthesis, characterization, and electrical properties. *Thin Solid Films*, **2008**, 517, 755-763	2.2	12
17	Investigation of the charge effect on the electrochemical transduction in a quinone-based DNA sensor. *Electrochimica Acta*, **2008**, 54, 346-351	6.7	20
16	Tunable electrochemical switches based on ultrathin organic films. *Journal of the American Chemical Society*, **2007**, 129, 1890-1	16.4	68
15	Investigations of the steric effect on electrochemical transduction in a quinone-based DNA sensor. *Biosensors and Bioelectronics*, **2007**, 22, 3126-31	11.8	49
14	Electrochemistry at capped platinum nanoparticle Langmuir Blodgett films: A study of the influence of platinum amount and of number of LB layers. *Electrochimica Acta*, **2007**, 52, 2285-2293	6.7	10
13	The development of a reagentless lactate biosensor based on a novel conducting polymer. *Bioelectrochemistry*, **2006**, 68, 218-26	5.6	46
12	Electronic transfer through LangmuirBlodgett layers of capped platinum nanoparticles: An electrochemical approach. *Electrochimica Acta*, **2006**, 51, 6076-6080	6.7	5
11	Characterization of the unstability of 4-mercaptoaniline capped platinum nanoparticles solution by combining LB technique and X-ray photoelectron spectroscopy. *Applied Surface Science*, **2006**, 252, 2422-2431	6.7	24
10	Selectivity and sensitivity of a reagentless electrochemical DNA sensor studied by square wave voltammetry and fluorescence. *Bioelectrochemistry*, **2006**, 69, 172-9	5.6	37
9	DNA electrochemical sensor based on conducting polymer: dependence of the "signal-on" detection on the probe sequence localization. *Analytical Chemistry*, **2005**, 77, 3351-6	7.8	46
8	Interpenetrating organic conducting polymer composites based on polyaniline and poly(3,4-ethylenedioxythiophene) from sequential electropolymerization. *Journal of Electroanalytical Chemistry*, **2005**, 585, 157-166	4.1	19
7	Cyclic voltammetric studies of the relaxation processes during the oxidation of poly(3,4-ethylenedioxythiophene) in propylene carbonate solution. *Journal of Electroanalytical Chemistry*, **2003**, 542, 33-38	4.1	33
6	Anomalous diffusion on the active zone of p-doped poly(3,4-ethylenedioxythiophene) modified electrodes. *Journal of Electroanalytical Chemistry*, **2003**, 556, 35-42	4.1	14
5	Electrochemical impedance spectroscopy of an oxidized poly(3,4-ethylenedioxythiophene) in propylene carbonate solutions. *Journal of Electroanalytical Chemistry*, **2003**, 558, 41-48	4.1	45
4	Fractal dimension of the active zone for a p-doped poly(3,4-ethylenedioxythiophene) modified electrode towards a ferrocene probe. *Journal of Electroanalytical Chemistry*, **2002**, 521, 107-116	4.1	13
3	Composite films of iron(III) hexacyanoferrate and poly(3,4-ethylenedioxythiophene): electrosynthesis and properties. *Journal of Electroanalytical Chemistry*, **2000**, 489, 46-54	4.1	34
2	Nucleation and growth of poly(3,4-ethylenedioxythiophene) in acetonitrile on platinum under potentiostatic conditions. *Journal of Electroanalytical Chemistry*, **1999**, 472, 103-111	4.1	191

1	All-Inkjet-Printed Graphene-Gated Organic Electrochemical Transistors on Polymeric Foil as Highly Sensitive Enzymatic Biosensors. *ACS Applied Nano Materials*,	5.6	3