

Christophe Renault

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,882
citations

361413

20
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of individual insulating entities by electrochemical blocking. <i>Current Opinion in Electrochemistry</i> , 2021, 25, 100619.	4.8	12
2	Revealing Dynamic Rotation of Single Graphene Nanoplatelets on Electrified Microinterfaces. <i>ACS Nano</i> , 2021, 15, 1250-1258.	14.6	20
3	Electrochemical characterization of individual oil micro-droplets by high-frequency nanocapacitor array imaging. <i>Faraday Discussions</i> , 2021, 233, 175-189.	3.2	6
4	Correlated Optical Electrochemical Measurements Reveal Bidirectional Current Steps for Graphene Nanoplatelet Collisions at Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2021, 93, 2898-2906.	6.5	15
5	Unravelling the last milliseconds of an individual graphene nanoplatelet before impact with a Pt surface by bipolar electrochemistry. <i>Chemical Science</i> , 2021, 12, 12494-12500.	7.4	7
6	Electrochemical Collisions of Individual Graphene Oxide Sheets: An Analytical and Fundamental Study. <i>ChemElectroChem</i> , 2020, 7, 69-73.	3.4	18
7	Self-Induced Convection at Microelectrodes via Electroosmosis and Its Influence on Impact Electrochemistry. <i>Journal of the American Chemical Society</i> , 2020, 142, 17908-17912.	13.7	21
8	Detection of individual conducting graphene nanoplatelet by electro-catalytic depression. <i>Electrochimica Acta</i> , 2020, 355, 136805.	5.2	6
9	Electrosynthesis of high-entropy metallic glass nanoparticles for designer, multi-functional electrocatalysis. <i>Nature Communications</i> , 2019, 10, 2650.	12.8	286
10	One-step electrodeposition of ligand-free PdPt alloy nanoparticles from water droplets: Controlling size, coverage, and elemental stoichiometry. <i>Electrochemistry Communications</i> , 2019, 98, 1-5.	4.7	27
11	How changes in interfacial pH lead to new voltammetric features: the case of the electrochemical oxidation of hydrazine. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11787-11793.	2.8	20
12	In Situ Measurement of the Size Distribution and Concentration of Insulating Particles by Electrochemical Collision on Hemispherical Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2018, 90, 12923-12929.	6.5	27
13	Nanometer Scale Scanning Electrochemical Microscopy Instrumentation. <i>Analytical Chemistry</i> , 2016, 88, 10284-10289.	6.5	45
14	High-Frequency Nanocapacitor Arrays: Concept, Recent Developments, and Outlook. <i>Accounts of Chemical Research</i> , 2016, 49, 2355-2362.	15.6	19
15	Electrocatalytic Activity of Individual Pt Nanoparticles Studied by Nanoscale Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 8560-8568.	13.7	127
16	Chronoabsorptometry To Investigate Conduction-Band-Mediated Electron Transfer in Mesoporous TiO ₂ Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14929-14937.	3.1	5
17	Observation of Single-Protein and DNA Macromolecule Collisions on Ultramicroelectrodes. <i>Journal of the American Chemical Society</i> , 2015, 137, 8376-8379.	13.7	164
18	Observation of Nanometer-Sized Electro-Active Defects in Insulating Layers by Fluorescence Microscopy and Electrochemistry. <i>Analytical Chemistry</i> , 2015, 87, 5730-5737.	6.5	13

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19	Unraveling the charge transfer/electron transport in mesoporous semiconductive TiO ₂ films by voltabsorptometry. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10592-10607.	2.8	21
20	Simultaneous Detection of Single Attoliter Droplet Collisions by Electrochemical and Electrogenerated Chemiluminescent Responses. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11859-11862.	13.8	120
21	Electrochemistry in Hollow-Channel Paper Analytical Devices. <i>Journal of the American Chemical Society</i> , 2014, 136, 4616-4623.	13.7	129
22	Electrogenerated Chemiluminescence of Common Organic Luminophores in Water Using an Emulsion System. <i>Journal of the American Chemical Society</i> , 2014, 136, 13546-13549.	13.7	101
23	Three-Dimensional Wax Patterning of Paper Fluidic Devices. <i>Langmuir</i> , 2014, 30, 7030-7036.	3.5	135
24	Simple, Sensitive, and Quantitative Electrochemical Detection Method for Paper Analytical Devices. <i>Analytical Chemistry</i> , 2014, 86, 6501-6507.	6.5	82
25	Wire, Mesh, and Fiber Electrodes for Paper-Based Electroanalytical Devices. <i>Analytical Chemistry</i> , 2014, 86, 3659-3666.	6.5	76
26	Hollow-Channel Paper Analytical Devices. <i>Analytical Chemistry</i> , 2013, 85, 7976-7979.	6.5	159
27	Paper-Based Bipolar Electrochemistry. <i>Journal of Electrochemical Science and Technology</i> , 2013, 4, 146-152.	2.2	22
28	Unraveling the Mechanism of Catalytic Reduction of O ₂ by Microperoxidase-11 Adsorbed within a Transparent 3D-Nanoporous ITO Film. <i>Journal of the American Chemical Society</i> , 2012, 134, 6834-6845.	13.7	58
29	Spectroelectrochemical Characterization of Small Hemoproteins Adsorbed within Nanostructured Mesoporous ITO Electrodes. <i>Langmuir</i> , 2012, 28, 14065-14072.	3.5	39
30	Time-resolved UV-visible spectroelectrochemistry using transparent 3D-mesoporous nanocrystalline ITO electrodes. <i>Chemical Communications</i> , 2011, 47, 1863-1865.	4.1	32
31	Highly ordered transparent mesoporous TiO ₂ thin films: an attractive matrix for efficient immobilization and spectroelectrochemical characterization of cytochrome c. <i>Chemical Communications</i> , 2009, , 7494.	4.1	21