

Renaud Cornut

List of Publications by Year in descending order

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33
papers

1,509
citations

394421

19
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the Link between Catalytic Activity and Agglomeration State with Scanning Electrochemical Microscopy and Atomic Force Microscopy. <i>Analytical Chemistry</i> , 2022, 94, 1697-1704.	6.5	5
2	Local probe investigation of electrocatalytic activity. <i>Chemical Science</i> , 2021, 12, 71-98.	7.4	13
3	Steady-State Electrocatalytic Activity Evaluation with the Redox Competition Mode of Scanning Electrochemical Microscopy: A Gold Probe and a Boron-Doped Diamond Substrate. <i>ChemElectroChem</i> , 2020, 7, 4633-4640.	3.4	10
4	Bifunctional coatings: coupling an organic adhesion promoter with an anticorrosion inorganic layer. <i>RSC Advances</i> , 2019, 9, 24043-24049.	3.6	10
5	Electronic Transport of MoS ₂ Monolayered Flakes Investigated by Scanning Electrochemical Microscopy. <i>ChemPhysChem</i> , 2017, 18, 2777-2781.	2.1	7
6	Localized electrochemistry for the investigation and the modification of 2D materials. <i>Applied Materials Today</i> , 2017, 8, 116-124.	4.3	11
7	All solution-processed organic photocathodes with increased efficiency and stability via the tuning of the hole-extracting layer. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4831-4839.	10.3	42
8	Enhancing the Performances of P3HT:PCBM/MoS ₃ -Based H ₂ -Evolving Photocathodes with Interfacial Layers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16395-16403.	8.0	51
9	Local surface modification via confined electrochemical deposition with FluidFM. <i>RSC Advances</i> , 2015, 5, 84517-84522.	3.6	37
10	Carbon Nanotube-Templated Synthesis of Covalent Porphyrin Network for Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2014, 136, 6348-6354.	13.7	231
11	Investigating Catalase Activity Through Hydrogen Peroxide Decomposition by Bacteria Biofilms in Real Time Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2014, 86, 498-505.	6.5	49
12	New Insights into the Electronic Transport of Reduced Graphene Oxide Using Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4162-4166.	4.6	13
13	Electrochemical Nanoprobes for Single-Cell Analysis. <i>ACS Nano</i> , 2014, 8, 875-884.	14.6	195
14	Localized Reduction of Graphene Oxide by Electrogenerated Naphthalene Radical Anions and Subsequent Diazonium Electrografting. <i>Journal of the American Chemical Society</i> , 2014, 136, 4833-4836.	13.7	27
15	Contactless Surface Conductivity Mapping of Graphene Oxide Thin Films Deposited on Glass with Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2013, 85, 1812-1818.	6.5	19
16	Optimization of the shearforce signal for scanning electrochemical microscopy and application for kinetic analysis. <i>Electrochimica Acta</i> , 2013, 88, 877-884.	5.2	20
17	Forced Convection during Feedback Approach Curve Measurements in Scanning Electrochemical Microscopy: Maximal Displacement Velocity with a Microdisk. <i>Analytical Chemistry</i> , 2012, 84, 3531-3537.	6.5	19
18	Ohmic Drop in LiFePO ₄ Based Lithium Battery Cathodes Containing Agglomerates. <i>Journal of the Electrochemical Society</i> , 2012, 159, A822-A827.	2.9	21

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19	Reactivity of Surfaces Determined by Local Electrochemical Triggering: A Bromo-Terminated Self-Assembled Monolayer. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5208-5212.	13.8	21
20	Accurate and Simplified Consideration of the Probe Geometrical Defaults in Scanning Electrochemical Microscopy: Theoretical and Experimental Investigations. <i>Analytical Chemistry</i> , 2011, 83, 9669-9675.	6.5	19
21	Surface Reactivity from Electrochemical Lithography: Illustration in the Steady-State Reductive Etching of Perfluorinated Surfaces. <i>Analytical Chemistry</i> , 2011, 83, 6106-6113.	6.5	18
22	Local etching of copper films by the Scanning Electrochemical Microscope in the feedback mode: A theoretical and experimental investigation. <i>Electrochimica Acta</i> , 2011, 56, 10701-10707.	5.2	23
23	Assessing multidrug resistance protein 1-mediated function in cancer cell multidrug resistance by scanning electrochemical microscopy and flow cytometry. <i>Bioelectrochemistry</i> , 2011, 82, 29-37.	4.6	43
24	Spontaneous adsorbed layers of 4-nitrobenzenediazonium salt on gold and glassy carbon: Local characterization by SECM and electron-transfer kinetics evaluation. <i>Journal of Electroanalytical Chemistry</i> , 2010, 647, 93-96.	3.8	17
25	Analytical Expressions for Quantitative Scanning Electrochemical Microscopy (SECM). <i>ChemPhysChem</i> , 2010, 11, 547-556.	2.1	154
26	Accuracy study on fitting procedure of kinetics SECM feedback experiments. <i>Journal of Electroanalytical Chemistry</i> , 2010, 650, 55-61.	3.8	26
27	Scanning Electrochemical Microscopy Approach Curves for Ring Microelectrodes in Pure Negative and Positive Feedback Mode. <i>Journal of the Electrochemical Society</i> , 2010, 157, F77.	2.9	9
28	Detection of Hydrogen Peroxide Produced during the Oxygen Reduction Reaction at Self-Assembled Thiol-Porphyrin Monolayers on Gold using SECM and Nanoelectrodes. <i>Langmuir</i> , 2010, 26, 13000-13006.	3.5	39
29	Enzyme-mediator kinetics studies with SECM: Numerical results and procedures to determine kinetics constants. <i>Journal of Electroanalytical Chemistry</i> , 2009, 633, 221-227.	3.8	16
30	New analytical approximation of feedback approach curves with a microdisk SECM tip and irreversible kinetic reaction at the substrate. <i>Journal of Electroanalytical Chemistry</i> , 2008, 621, 178-184.	3.8	185
31	Studying permeable films with scanning electrochemical microscopy (SECM): Quantitative determination of permeability parameter. <i>Journal of Electroanalytical Chemistry</i> , 2008, 623, 197-203.	3.8	17
32	New analytical approximations for negative feedback currents with a microdisk SECM tip. <i>Journal of Electroanalytical Chemistry</i> , 2007, 604, 91-100.	3.8	37
33	A unified new analytical approximation for negative feedback currents with a microdisk SECM tip. <i>Journal of Electroanalytical Chemistry</i> , 2007, 608, 59-66.	3.8	101