

Simone Ciampi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

4,003
citations

31
h-index

61
g-index

111
ext. papers

4,658
ext. citations

9.9
avg. IF

5.74
L-index

#	Paper	IF	Citations
99	Electrostatic catalysis of a Diels-Alder reaction. <i>Nature</i> , 2016 , 531, 88-91	50.4	422
98	The molecular level modification of surfaces: from self-assembled monolayers to complex molecular assemblies. <i>Chemical Society Reviews</i> , 2011 , 40, 2704-18	58.5	386
97	Wet chemical routes to the assembly of organic monolayers on silicon surfaces via the formation of Si-C bonds: surface preparation, passivation and functionalization. <i>Chemical Society Reviews</i> , 2010 , 39, 2158-83	58.5	258
96	Functionalization of acetylene-terminated monolayers on Si(100) surfaces: a click chemistry approach. <i>Langmuir</i> , 2007 , 23, 9320-9	4	241
95	Harnessing electrostatic catalysis in single molecule, electrochemical and chemical systems: a rapidly growing experimental tool box. <i>Chemical Society Reviews</i> , 2018 , 47, 5146-5164	58.5	129
94	Using an electrical potential to reversibly switch surfaces between two states for dynamically controlling cell adhesion. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7706-10	16.4	110
93	Silicon (100) electrodes resistant to oxidation in aqueous solutions: an unexpected benefit of surface acetylene moieties. <i>Langmuir</i> , 2009 , 25, 2530-9	4	104
92	Multi-responsive photo- and chemo-electrical single-molecule switches. <i>Nano Letters</i> , 2014 , 14, 7064-70	11.5	102
91	Click chemistry in mesoporous materials: functionalization of porous silicon rugate filters. <i>Langmuir</i> , 2008 , 24, 5888-92	4	102
90	Nanoscale condensation of water on self-assembled monolayers. <i>Soft Matter</i> , 2011 , 7, 5309	3.6	90
89	Electrochemical and Electrostatic Cleavage of Alkoxyamines. <i>Journal of the American Chemical Society</i> , 2018 , 140, 766-774	16.4	88
88	A novel route to copper(II) detection using 'click' chemistry-induced aggregation of gold nanoparticles. <i>Analyst</i> , 2012 , 137, 82-6	5	79
87	Distance-dependent electron transfer at passivated electrodes decorated by gold nanoparticles. <i>Analytical Chemistry</i> , 2013 , 85, 1073-80	7.8	78
86	One-pot synthesis of colloidal silicon quantum dots and surface functionalization via thiol-ene click chemistry. <i>Chemical Communications</i> , 2012 , 48, 11874-6	5.8	64
85	Connecting electrodes with light: one wire, many electrodes. <i>Chemical Science</i> , 2015 , 6, 6769-6776	9.4	61
84	Comparing the reactivity of alkynes and alkenes on silicon (100) surfaces. <i>Langmuir</i> , 2009 , 25, 13934-41	4	61
83	Optimization of Click Chemistry of Ferrocene Derivatives on Acetylene-Functionalized Silicon(100) Surfaces. <i>Electroanalysis</i> , 2008 , 20, 1513-1519	3	61

82	Single-molecule electrical contacts on silicon electrodes under ambient conditions. <i>Nature Communications</i> , 2017 , 8, 15056	17.4	60
81	Studies on the effect of solvents on self-assembled monolayers formed from organophosphonic acids on indium tin oxide. <i>Langmuir</i> , 2012 , 28, 9487-95	4	53
80	A photoelectrochemical platform for the capture and release of rare single cells. <i>Nature Communications</i> , 2018 , 9, 2288	17.4	50
79	Different functionalization of the internal and external surfaces in mesoporous materials for biosensing applications using "click" chemistry. <i>Langmuir</i> , 2011 , 27, 328-34	4	50
78	Mesoporous silicon photonic crystal microparticles: towards single-cell optical biosensors. <i>Faraday Discussions</i> , 2011 , 149, 301-17; discussion 333-56	3.6	48
77	Versatile "click chemistry" approach to functionalizing silicon quantum dots: applications toward fluorescent cellular imaging. <i>Langmuir</i> , 2014 , 30, 5209-16	4	47
76	Reproducible flaws unveil electrostatic aspects of semiconductor electrochemistry. <i>Nature Communications</i> , 2017 , 8, 2066	17.4	47
75	TEMPO Monolayers on Si(100) Electrodes: Electrostatic Effects by the Electrolyte and Semiconductor Space-Charge on the Electroactivity of a Persistent Radical. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9611-9	16.4	44
74	Electrochemical "switching" of Si(100) modular assemblies. <i>Journal of the American Chemical Society</i> , 2012 , 134, 844-7	16.4	43
73	Mechanical Stretching-Induced Electron-Transfer Reactions and Conductance Switching in Single Molecules. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14699-14706	16.4	42
72	Chemically and Mechanically Controlled Single-Molecule Switches Using Spiropyrans. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36886-36894	9.5	40
71	Tandem "click" reactions at acetylene-terminated Si(100) monolayers. <i>Langmuir</i> , 2011 , 27, 6940-9	4	40
70	Metal-Single-Molecule-Semiconductor Junctions Formed by a Radical Reaction Bridging Gold and Silicon Electrodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14788-14797	16.4	37
69	Nanoscale water condensation on click-functionalized self-assembled monolayers. <i>Langmuir</i> , 2011 , 27, 10753-62	4	35
68	Light Activated Electrochemistry: Light Intensity and pH Dependence on Electrochemical Performance of Anthraquinone Derivatized Silicon. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2874-2882 ^{3.8}	3.8	31
67	Electrochemical behavior of gold colloidal alkyl modified silicon surfaces. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2477-83	9.5	31
66	Probing the effect of the solution environment around redox-active moieties using rigid anthraquinone terminated molecular rulers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18401-9	16.4	30
65	Grafting of poly(ethylene glycol) on click chemistry modified Si(100) surfaces. <i>Langmuir</i> , 2013 , 29, 8355-62	4	29

64	Direct electrochemistry of cytochrome c at modified Si(100) electrodes. <i>Chemistry - A European Journal</i> , 2010 , 16, 5961-8	4.8	29
63	Light-addressable electrochemistry at semiconductor electrodes: redox imaging, mask-free lithography and spatially resolved chemical and biological sensing. <i>Chemical Society Reviews</i> , 2019 , 48, 3723-3739	58.5	28
62	Reversible potential-induced structural changes of alkanethiol monolayers on gold surfaces. <i>Electrochemistry Communications</i> , 2011 , 13, 387-390	5.1	27
61	Electrochemical Microscopy Based on Spatial Light Modulators: A Projection System to Spatially Address Electrochemical Reactions at Semiconductors. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H3085-H3092	3.9	26
60	Effect of Chemical Structure on the Electrochemical Cleavage of Alkoxyamines. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5273-5281	3.8	26
59	The spontaneous formation of single-molecule junctions via terminal alkynes. <i>Nanotechnology</i> , 2015 , 26, 381001	3.4	24
58	The impact of surface coverage on the kinetics of electron transfer through redox monolayers on a silicon electrode surface. <i>Electrochimica Acta</i> , 2015 , 186, 216-222	6.7	24
57	Switching of Current Rectification Ratios within a Single Nanocrystal by Facet-Resolved Electrical Wiring. <i>ACS Nano</i> , 2018 , 12, 8071-8080	16.7	24
56	Electrochemistry on Tribocharged Polymers Is Governed by the Stability of Surface Charges Rather than Charging Magnitude. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5863-5870	16.4	23
55	Quantitative Analysis of Cyclic Voltammetry of Redox Monolayers Adsorbed on Semiconductors: Isolating Electrode Kinetics, Lateral Interactions, and Diode Currents. <i>Analytical Chemistry</i> , 2019 , 91, 5929-5937	7.8	23
54	The corona of a surface bubble promotes electrochemical reactions. <i>Nature Communications</i> , 2020 , 11, 6323	17.4	23
53	Antibody modified porous silicon microparticles for the selective capture of cells. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1282-9	6.3	22
52	Antifouling behaviour of silicon surfaces modified with self-assembled monolayers containing both ethylene glycol and charged moieties. <i>Surface Science</i> , 2010 , 604, 1388-1394	1.8	22
51	A robust DNA interface on a silicon electrode. <i>Chemical Communications</i> , 2014 , 50, 7878-80	5.8	20
50	Using an Electrical Potential to Reversibly Switch Surfaces between Two States for Dynamically Controlling Cell Adhesion. <i>Angewandte Chemie</i> , 2012 , 124, 7826-7830	3.6	20
49	Harnessing silicon facet-dependent conductivity to enhance the direct-current produced by a sliding Schottky diode triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 78, 105210	17.1	20
48	Control over Near-Ballistic Electron Transport through Formation of Parallel Pathways in a Single-Molecule Wire. <i>Journal of the American Chemical Society</i> , 2019 , 141, 240-250	16.4	20
47	Light-Activated Electrochemistry for the Two-Dimensional Interrogation of Electroactive Regions on a Monolithic Surface with Dramatically Improved Spatial Resolution. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13032-13038	3.8	19

46	Photolithographic strategy for patterning preformed, chemically modified, porous silicon photonic crystal using click chemistry. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6514-21	9.5	19
45	Investigation of the Antifouling Properties of Phenyl Phosphorylcholine-Based Modified Gold Surfaces. <i>Electroanalysis</i> , 2014 , 26, 1471-1480	3	17
44	Nanocrystal Inks: Photoelectrochemical Printing of Cu ₂ O Nanocrystals on Silicon with 2D Control on Polyhedral Shapes. <i>Advanced Functional Materials</i> , 2018 , 28, 1804791	15.6	17
43	Spontaneous S-Si bonding of alkanethiols to Si(111)-H: towards Si-molecule-Si circuits. <i>Chemical Science</i> , 2020 , 11, 5246-5256	9.4	15
42	Oxidative acetylenic coupling reactions as a surface chemistry tool. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15624-32	3.6	15
41	Mechanism of Oxidative Alkoxyamine Cleavage: The Surprising Role of the Solvent and Supporting Electrolyte. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10300-10305	3.8	14
40	Hydrogen evolution during the electrodeposition of gold nanoparticles at Si(100) photoelectrodes impairs the analysis of current-time transients. <i>Electrochimica Acta</i> , 2017 , 247, 200-206	6.7	14
39	Redox-Active Monolayers in Mesoporous Silicon. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16080-16088	8.8	14
38	The influence of organic-film morphology on the efficient electron transfer at passivated polymer-modified electrodes to which nanoparticles are attached. <i>ChemPhysChem</i> , 2013 , 14, 2190-7	3.2	14
37	Reduced graphene oxide-silicon interface involving direct Si-O bonding as a conductive and mechanical stable ohmic contact. <i>Chemical Communications</i> , 2020 , 56, 6209-6212	5.8	13
36	Coupled Thermodynamic and Kinetic Changes in the Electrochemistry of Ferrocenyl Monolayers Induced by Light. <i>Langmuir</i> , 2017 , 33, 2497-2503	4	12
35	Stability of Chemically Passivated Silicon Electrodes in Aqueous Solutions: Interplay between Bias Voltage and Hydration of the Electrolyte. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15941-15948	3.8	12
34	Forming Ferrocenyl Self-Assembled Monolayers on Si(100) Electrodes with Different Alkyl Chain Lengths for Electron Transfer Studies. <i>ChemElectroChem</i> , 2019 , 6, 211-220	4.3	12
33	The rapid formation of functional monolayers on silicon under mild conditions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8003-11	3.6	12
32	The detailed characterization of electrochemically switchable molecular assemblies on silicon electrodes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9879-90	3.6	12
31	Covalent Linkages of Molecules and Proteins to Si-H Surfaces Formed by Disulfide Reduction. <i>Langmuir</i> , 2020 , 36, 14999-15009	4	12
30	Switchable Interfaces: Redox Monolayers on Si(100) by Electrochemical Trapping of Alcohol Nucleophiles. <i>Surfaces</i> , 2018 , 1, 3-11	2.9	12
29	Light-activated electrochemistry on alkyne-terminated Si(100) surfaces towards solution-based redox probes. <i>Electrochimica Acta</i> , 2016 , 213, 540-546	6.7	11

28	Heterojunctions Based on Amorphous Silicon: A Versatile Surface Engineering Strategy To Tune Peak Position of Redox Monolayers on Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 836-844	3.8	10
27	Spatiotemporal Control of Electrochemiluminescence Guided by a Visible Light Stimulus. <i>Cell Reports Physical Science</i> , 2020 , 1, 100107	6.1	10
26	Light-activated electrochemistry without surface-bound redox species. <i>Electrochimica Acta</i> , 2017 , 251, 250-255	6.7	9
25	A multimodal optical and electrochemical device for monitoring surface reactions: redox active surfaces in porous silicon Rugate filters. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 16433-9	3.6	9
24	Depth-resolved chemical modification of porous silicon by wavelength-tuned irradiation. <i>Langmuir</i> , 2012 , 28, 15444-9	4	9
23	Spatially confined electrochemical activity at a non-patterned semiconductor electrode. <i>Electrochimica Acta</i> , 2017 , 242, 240-246	6.7	9
22	Impermeable Graphene Oxide Protects Silicon from Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38799-38807	9.5	9
21	Silicon@AuNP electrodes: Electrochemical Switching and stability. <i>Electrochemistry Communications</i> , 2016 , 70, 28-32	5.1	8
20	Electrostatics and Electrochemistry: Mechanism and Scope of Charge-Transfer Reactions on the Surface of Tribocharged Insulators. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3019-3032	16.4	8
19	DNA-Hybridization Detection on Si(100) Surfaces Using Light-Activated Electrochemistry: A Comparative Study between Bovine Serum Albumin and Hexaethylene Glycol as Antifouling Layers. <i>Langmuir</i> , 2018 , 34, 14817-14824	4	8
18	Experimental Evidence of Long-Lived Electric Fields of Ionic Liquid Bilayers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17431-17440	16.4	7
17	The Position of Solid Carbon Dioxide in the Triboelectric Series. <i>Australian Journal of Chemistry</i> , 2019 , 72, 633	1.2	6
16	Single-Electrode Electrochemistry: Chemically Engineering Surface Adhesion and Hardness To Maximize Redox Work Extracted from Tribocharged Silicon. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7230-7236	5.6	6
15	Decoloration rates of a photomerocyanine dye as a visual probe into hydrogen bonding interactions. <i>Chemical Communications</i> , 2015 , 51, 4815-8	5.8	5
14	Common Background Signals in Voltammograms of Crystalline Silicon Electrodes are Reversible Silica-Silicon Redox Chemistry at Highly Conductive Surface Sites. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1267-1272	16.4	5
13	Spontaneous Grafting of OH-Terminated Molecules on Si(100) Surfaces via Si-OH Covalent Bonding. <i>Surfaces</i> , 2021 , 4, 81-88	2.9	5
12	Irreproducibility in the triboelectric charging of insulators: evidence of a non-monotonic charge versus contact time relationship. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11671-11677	3.6	3
11	Static Electrification of Plastics under Friction: The Position of Engineering-Grade Polyethylene Terephthalate in the Triboelectric Series. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901201	3.5	3

10	Sublayer-enhanced atomic sites of single atom catalysts through in situ atomization of metal oxide nanoparticles. <i>Energy and Environmental Science</i> ,	35.4	2
9	Microelectrode arrays with active-area geometries defined by spatial light modulation. <i>Electrochimica Acta</i> , 2020 , 356, 136849	6.7	2
8	Absence of a Relationship between Surface Conductivity and Electrochemical Rates: Redox-Active Monolayers on Si(211), Si(111), and Si(110). <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18197-18203	3.8	2
7	Electrostatic Regulation of TEMPO Oxidation by Distal Molecular Charges. <i>ChemElectroChem</i> , 2020 , 7, 3522-3527	4.3	1
6	Nanoscale Silicon Oxide Reduces Electron Transfer Kinetics of Surface-Bound Ferrocene Monolayers on Silicon. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27763-27770	3.8	1
5	Surface Patterning of Biomolecules Using Click Chemistry and Light-Activated Electrochemistry to Locally Generate Cu(I). <i>ChemElectroChem</i> , 2020 , 7, 4245-4250	4.3	0
4	Sliding silicon-based Schottky diodes: Maximizing triboelectricity with surface chemistry. <i>Nano Energy</i> , 2022 , 93, 106861	17.1	0
3	Effect of Electric Fields on Silicon-Based Monolayers.. <i>Langmuir</i> , 2022 , 38, 2986-2992	4	0
2	Bubbles pinned on electrodes: friends or foes of aqueous electrochemistry?. <i>Current Opinion in Electrochemistry</i> , 2022 , 100992	7.2	0
1	Electric Field Modulation of Silicon upon Tethering of Highly Charged Nucleic Acids. Capacitive Studies on DNA-modified Silicon (111). <i>Electroanalysis</i> , 2016 , 28, 2367-2372	3	