Gabriel Loget

List of Publications by Year
in descending order

68 papers	3,122 citations	185998 28 h-index	161609 54 g-index
74 all docs	74 docs citations	74 times ranked	3022 citing authors

#	Article	IF	Citations
1	Epitaxial IIIâ€“V/Si Vertical Heterostructures with Hybrid 2Dâ€Semimetal/Semiconductor Ambipolar and Photoactive Properties. Advanced Science, 2022, 9, e2101661.	5.6	13
2	Electrochemiluminescence with semiconductor (nano)materials. Chemical Science, 2022, 13, 2528-2550.	3.7	94
3	Solar-assisted urea oxidation at silicon photoanodes promoted by an amorphous and optically adaptive Niâ€“Moâ€“O catalytic layer. Journal of Materials Chemistry A, 2022, 10, 19769-19776.	5.2	14
4	Metalâ€Insulatorâ€Semiconductor Anodes for Ultrastable and Siteâ€Selective Upconversion Photoinduced Electrochemiluminescence. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12
5	Anti-Stokes photoinduced electrochemiluminescence at a photocathode. Chemical Communications, 2022, 58, 6686-6688.	2.2	6
6	Wireless Anti-Stokes Photoinduced Electrochemiluminescence at Closed Semiconducting Bipolar Electrodes. Journal of Physical Chemistry Letters, 2022, 13, 5538-5544.	2.1	9
7	Custom plating of nanoscale semiconductor/catalyst junctions for photoelectrochemical water splitting. Nanoscale, 2021, 13, 1997-2004.	2.8	7
8	Photoinduced electrochemiluminescence at nanostructured hematite electrodes. Electrochimica Acta, 2021, 381, 138238.	2.6	12
9	Photoelectrochemistry at semiconductor/liquid interfaces triggered by electrochemiluminescence. Cell Reports Physical Science, 2021, 2, 100670.	2.8	7
10	Dissociating Water at nâ€Si Photoanodes Partially Covered with Fe Catalysts. Advanced Energy Materials, 2020, 10, 1902963.	10.2	23
11	Bismuthâ€Decorated Silicon Photocathodes for CO₂â€toâ€Formate Solarâ€Driven Conversion. ChemCatChem, 2020, 12, 5819-5825.	1.8	8
12	Photoelectrochemical Sensing of Hydrogen Peroxide on Hematite. ChemElectroChem, 2020, 7, 1155-1159.	1.7	16
13	Luminescence Amplification at BiVO 4 Photoanodes by Photoinduced Electrochemiluminescence. Angewandte Chemie, 2020, 132, 15269-15272.	1.6	7
14	Luminescence Amplification at BiVO₄ Photoanodes by Photoinduced Electrochemiluminescence. Angewandte Chemie - International Edition, 2020, 59, 15157-15160.	7.2	23
15	Structureâ€“Property Relationships in Redox-Derivatized Metalâ€“Insulatorâ€“Semiconductor (MIS) Photoanodes. Journal of Physical Chemistry C, 2020, 124, 25907-25916.	1.5	11
16	Tailoring the photoelectrochemistry of catalytic metal-insulator-semiconductor (MIS) photoanodes by a dissolution method. Nature Communications, 2019, 10, 3522.	5.8	49
17	Photoinduced Electrochemiluminescence at Silicon Electrodes in Water. Journal of the American Chemical Society, 2019, 141, 13013-13016.	6.6	79
18	Molecular and Material Engineering of Photocathodes Derivatized with Polyoxometalate-Supported {Mo₃S₄} HER Catalysts. Journal of the American Chemical Society, 2019, 141, 11954-11962.	6.6	34

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19	Black Silicon Photoanodes Entirely Prepared with Abundant Materials by Low-Cost Wet Methods. ACS Applied Energy Materials, 2019, 2, 1006-1010.	2.5	19
20	Remote ion-pair interactions in Fe-porphyrin-based molecular catalysts for the hydrogen evolution reaction. Catalysis Science and Technology, 2019, 9, 1301-1308.	2.1	24
21	Water oxidation with inhomogeneous metal-silicon interfaces. Current Opinion in Colloid and Interface Science, 2019, 39, 40-50.	3.4	34
22	Boosting the Performance of BiVO4Prepared through Alkaline Electrodeposition with an Amorphous Fe Coâ€Catalyst. ChemElectroChem, 2019, 6, 613-617.	1.7	7
23	Polyoxothiometalate-Derivatized Silicon Photocathodes for Sunlight-Driven Hydrogen Evolution Reaction. ACS Omega, 2018, 3, 13837-13849.	1.6	13
24	Elucidating the performance and unexpected stability of partially coated water-splitting silicon photoanodes. Energy and Environmental Science, 2018, 11, 2590-2599.	15.6	50
25	A General Concept for Solar Waterâ€Splitting Monolithic Photoelectrochemical Cells Based on Earthâ€Abundant Materials and a Lowâ€Cost Photovoltaic Panel. Advanced Sustainable Systems, 2018, 2, 1800075.	2.7	7
26	Dispersed Ni Nanoparticles Stabilize Silicon Photoanodes for Efficient and Inexpensive Sunlight-Assisted Water Oxidation. ACS Energy Letters, 2017, 2, 569-573.	8.8	68
27	Enhancing light trapping of macroporous silicon by alkaline etching: application for the fabrication of black Si nanospike arrays. Materials Chemistry Frontiers, 2017, 1, 1881-1887.	3.2	9
28	Spontaneous decoration of silicon surfaces with MoO_xnanoparticles for the sunlight-assisted hydrogen evolution reaction. Nanoscale, 2017, 9, 1799-1804.	2.8	20
29	Ultra-Antireflective Electrodeposited Plasmonic and PEDOT Nanocone Array Surfaces. Journal of Physical Chemistry C, 2017, 121, 22377-22383.	1.5	6
30	Wireless Light-Emitting Electrochemical Rotors. Journal of Physical Chemistry Letters, 2017, 8, 4930-4934.	2.1	19
31	(Invited) Atomic Layer Deposition: A Great Tool to Synthetize High Efficiency Electrodes for Solar Fuel Generation?. ECS Meeting Abstracts, 2017, , .	0.0	0
32	Polydopamine-Coated TiO₂ Nanotubes for Selective Photocatalytic Oxidation of Benzyl Alcohol to Benzaldehyde Under Visible Light. Journal of Nanoscience and Nanotechnology, 2016, 16, 5353-5358.	0.9	16
33	Protected Light-Trapping Silicon by a Simple Structuring Process for Sunlight-Assisted Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 24810-24818.	4.0	24
34	Tuning the Photoelectrocatalytic Hydrogen Evolution of Pt-Decorated Silicon Photocathodes by the Temperature and Time of Electroless Pt Deposition. Langmuir, 2016, 32, 11728-11735.	1.6	11
35	Combined local anodization of titanium and scanning photoelectrochemical mapping of TiO2 spot arrays. Electrochimica Acta, 2016, 222, 84-91.	2.6	9
36	Lightâ€Driven Bipolar Electrochemical Logic Gates with Electrical or Optical Outputs. ChemElectroChem, 2016, 3, 366-371.	1.7	7

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37	Highly controlled coating of biomimetic polydopamine in TiO2 nanotubes. Electrochemistry Communications, 2015, 52, 41-44.	2.3	43
38	Logic gates operated by bipolar photoelectrochemical water splitting. Chemical Communications, 2015, 51, 11115-11118.	2.2	22
39	The EChemPen: A Guiding Hand To Learn Electrochemical Surface Modifications. Journal of Chemical Education, 2015, 92, 1700-1704.	1.1	6
40	Silica Nanowire Arrays for Diffractionâ€Based Bioaffinity Sensing. Chemistry - A European Journal, 2014, 20, 10802-10810.	1.7	8
41	H₂ Mapping on Pt-Loaded TiO₂ Nanotube Gradient Arrays. Langmuir, 2014, 30, 15356-15363.	1.6	22
42	Straight-forward synthesis of ringed particles. Chemical Science, 2014, 5, 1961.	3.7	33
43	Flexible Teflon Nanocone Array Surfaces with Tunable Superhydrophobicity for Self-Cleaning and Aqueous Droplet Patterning. ACS Applied Materials & Interfaces, 2014, 6, 11110-11117.	4.0	94
44	Bipolar anodization enables the fabrication of controlled arrays of TiO₂ nanotube gradients. Journal of Materials Chemistry A, 2014, 2, 17740-17745.	5.2	52
45	Lithographically Patterned Nanoscale Electrodeposition of Plasmonic, Bimetallic, Semiconductor, Magnetic, and Polymer Nanoring Arrays. Journal of Physical Chemistry C, 2014, 118, 28993-29000.	1.5	25
46	Wireless powering of e -swimmers. Scientific Reports, 2014, 4, 6705.	1.6	50
47	Electrodeposition of Polydopamine Thin Films for DNA Patterning and Microarrays. Analytical Chemistry, 2013, 85, 9991-9995.	3.2	70
48	Fabrication of Broadband Antireflective Plasmonic Gold Nanocone Arrays on Flexible Polymer Films. Nano Letters, 2013, 13, 6164-6169.	4.5	94
49	Wireless Electrografting of Molecular Layers for Janus Particle Synthesis. Chemistry - A European Journal, 2013, 19, 1577-1580.	1.7	31
50	Bipolar Electrochemistry: From Materials Science to Motion and Beyond. Accounts of Chemical Research, 2013, 46, 2513-2523.	7.6	325
51	Indirect Bipolar Electrodeposition. Journal of the American Chemical Society, 2012, 134, 20033-20036.	6.6	86
52	Lightâ€Emitting Electrochemical â€œSwimmersâ€• Angewandte Chemie - International Edition, 2012, 51, 11284-11288.	7.2	91
53	Assymetric Nanoâ€objects: True Bulk Synthesis of Janus Objects by Bipolar Electrochemistry (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT	11.1	1
54	Bulk synthesis of Janus objects and asymmetric patchy particles. Journal of Materials Chemistry, 2012, 22, 15457.	6.7	121

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55	Bipolar electrochemistry for cargo-lifting in fluid channels. Lab on A Chip, 2012, 12, 1967.	3.1	55
56	Direct Visualization of Symmetry Breaking During Janus Nanoparticle Formation. Small, 2012, 8, 2698-2703.	5.2	18
57	True Bulk Synthesis of Janus Objects by Bipolar Electrochemistry. Advanced Materials, 2012, 24, 5111-5116.	11.1	170
58	Versatile Procedure for Synthesis of Janus-Type Carbon Tubes. Chemistry of Materials, 2011, 23, 2595-2599.	3.2	67
59	Electric field-induced chemical locomotion of conducting objects. Nature Communications, 2011, 2, 535.	5.8	384
60	Straightforward single-step generation of microswimmers by bipolar electrochemistry. Electrochimica Acta, 2011, 56, 10562-10566.	2.6	78
61	Shaping and exploring the micro- and nanoworld using bipolar electrochemistry. Analytical and Bioanalytical Chemistry, 2011, 400, 1691-1704.	1.9	94
62	Direct Electron Transfer of Hemoglobin and Myoglobin at the Bare Glassy Carbon Electrode in an Aqueous BMI.BF₄ Ionicâ€Liquid Mixture. ChemPhysChem, 2011, 12, 411-418.	1.0	10
63	Single point electrodeposition of nickel for the dissymmetric decoration of carbon tubes. Electrochimica Acta, 2010, 55, 8116-8120.	2.6	42
64	Propulsion of Microobjects by Dynamic Bipolar Self-Regeneration. Journal of the American Chemical Society, 2010, 132, 15918-15919.	6.6	166
65	Efficiency and stability of transition metal electrocatalysts for the hydrogen evolution reaction using ionic liquids as electrolytes. International Journal of Hydrogen Energy, 2009, 34, 84-90.	3.8	27
66	Molybdenum electrodes for hydrogen production by water electrolysis using ionic liquid electrolytes. Electrochemistry Communications, 2008, 10, 1673-1675.	2.3	43
67	Bipolar electrochemistry in the nanosciences. SPR Electrochemistry, 0, , 71-103.	0.7	7
68	Metalâ€Insulatorâ€Semiconductor Anodes for Ultrastable and Siteâ€Selective Upconversion Photoinduced Electrochemiluminescence. Angewandte Chemie, 0, , .	1.6	1