

# Anne Charrier

## List of Publications by Year in descending order

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45  
papers

1,164  
citations

471371

17  
h-index

377752

34  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1949  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-state decomposition of silicon carbide for growing ultra-thin heteroepitaxial graphite films. <i>Journal of Applied Physics</i> , 2002, 92, 2479-2484.	1.1	190
2	Tailoring the Electrochemical and Mechanical Properties of PEDOT:PSS Films for Bioelectronics. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600497.	1.7	127
3	Main Phase Transitions in Supported Lipid Single-Bilayer. <i>Biophysical Journal</i> , 2005, 89, 1094-1101.	0.2	120
4	Solid-state graphitization mechanisms of silicon carbide 6H-SiC polar faces. <i>Applied Surface Science</i> , 2000, 162-163, 406-412.	3.1	112
5	Mechanical characterization of cross-linked serum albumin microcapsules. <i>Soft Matter</i> , 2014, 10, 4561.	1.2	50
6	Photoemission from graphite: Intrinsic and self-energy effects. <i>Physical Review B</i> , 2001, 64, .	1.1	40
7	Contrasted electronic properties of Sn-adatom-based(3 $\times$ 3)R30 $\circ$ reconstructions on Si(111). <i>Physical Review B</i> , 2001, 64, .	1.1	35
8	High Aspect Ratio Sub- $\mu$ m Channels Using Wet Etching: Application to the Dynamics of Red Blood Cell Transiting through Biomimetic Splenic Slits. <i>Small</i> , 2017, 13, 1700967.	5.2	35
9	Wetting Properties and Critical Micellar Concentration of Benzalkonium Chloride Mixed in Sodium Hypochlorite. <i>Journal of Endodontics</i> , 2012, 38, 1525-1529.	1.4	34
10	Plasticity, elasticity, and adhesion energy of plant cell walls: nanometrology of lignin loss using atomic force microscopy. <i>Scientific Reports</i> , 2017, 7, 152.	1.6	29
11	Label free femtomolar electrical detection of Fe(III) ions with a pyridinone modified lipid monolayer as the active sensing layer. <i>Journal of Materials Chemistry B</i> , 2013, 1, 443-446.	2.9	27
12	From Understanding Cellular Function to Novel Drug Discovery: The Role of Planar Patch-Clamp Array Chip Technology. <i>Frontiers in Pharmacology</i> , 2011, 2, 51.	1.6	23
13	Autonomic Self-Healing Lipid Monolayer: A New Class of Ultrathin Dielectric. <i>Langmuir</i> , 2011, 27, 13643-13647.	1.6	22
14	Electron correlation effects at Sn/Si(111) $\sqrt{3}\times\sqrt{3}$ and Sn/Ge(111) $\sqrt{3}\times\sqrt{3}$ reconstructions. <i>Progress in Surface Science</i> , 2001, 67, 299-307.	3.8	19
15	A field effect transistor biosensor with a 1 $\beta$ -pyrone derivative engineered lipid-sensing layer for ultrasensitive Fe <sup>3+</sup> ion detection with low pH interference. <i>Biosensors and Bioelectronics</i> , 2014, 54, 571-577.	5.3	19
16	2D aggregation and selective desorption of nanoparticle probes: A new method to probe DNA mismatches and damages. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1881-1886.	5.3	18
17	Nanometric Protein-Patch Arrays on Glass and Polydimethylsiloxane for Cell Adhesion Studies. <i>Nano Letters</i> , 2013, 13, 3372-3378.	4.5	18
18	Self-organization of red blood cell suspensions under confined 2D flows. <i>Soft Matter</i> , 2019, 15, 2971-2980.	1.2	18

#	ARTICLE	IF	CITATIONS
19	DNA Detection Method Based on the Two-Dimensional Aggregation and Selective Desorption of Nanoparticle Probes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12896-12900.	1.2	17
20	Size-Tunable Organic Nanodot Arrays: A Versatile Platform for Manipulating and Imaging Cells. <i>Nano Letters</i> , 2015, 15, 5178-5184.	4.5	17
21	Femtomolar detection of Cu <sup>2+</sup> ions in solution using super-Nernstian FET-sensor with a lipid monolayer as top-gate dielectric. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128147.	4.0	17
22	Cell placement and guidance on substrates for neurochip interfaces. <i>Biotechnology and Bioengineering</i> , 2010, 105, 368-373.	1.7	15
23	Direct Stabilization of a Phospholipid Monolayer on H-Terminated Silicon. <i>Langmuir</i> , 2010, 26, 2538-2543.	1.6	14
24	Facile Nanopatterning of PEDOT:PSS Thin Films. <i>Advanced Materials Technologies</i> , 2018, 3, 1700344.	3.0	14
25	Nanometrology of Biomass for Bioenergy: The Role of Atomic Force Microscopy and Spectroscopy in Plant Cell Characterization. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	13
26	Supported Lipid Monolayer with Improved Nanomechanical Stability: Effect of Polymerization. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7190-7195.	1.2	10
27	Determination of mechanical properties of cortical bone using AFM under dry and immersed conditions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 337-339.	0.9	10
28	Subpicomolar Iron Sensing Platform Based on Functional Lipid Monolayer Microarrays. <i>Analytical Chemistry</i> , 2016, 88, 3804-3809.	3.2	10
29	Electrolyte-gated-organic field effect transistors functionalized by lipid monolayers with tunable pH sensitivity for sensor applications. <i>Applied Physics Express</i> , 2020, 13, 011005.	1.1	10
30	Influence of force volume indentation parameters and processing method in wood cell walls nanomechanical studies. <i>Scientific Reports</i> , 2021, 11, 5739.	1.6	10
31	Ultrathin Supported Lipid Monolayer with Unprecedented Mechanical and Dielectric Properties. <i>Advanced Functional Materials</i> , 2018, 28, 1801024.	7.8	9
32	Stable operation of water-gated organic field-effect transistor depending on channel flatness, electrode metals and surface treatment. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SDDH02.	0.8	9
33	Dynamics of Individual Red Blood Cells Under Shear Flow: A Way to Discriminate Deformability Alterations. <i>Frontiers in Physiology</i> , 2021, 12, 775584.	1.3	9
34	Printing Functional Protein Nanodots on Soft Elastomers: From Transfer Mechanism to Cell Mechanosensing. <i>Nano Letters</i> , 2017, 17, 4284-4290.	4.5	8
35	Affinity driven ion exchange EG-OFET sensor for high selectivity and low limit of detection of cesium in seawater. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130956.	4.0	7
36	Directed growth of horizontal silicon nanowires by laser induced decomposition of silane. <i>Journal of Vacuum Science &amp; Technology B</i> , 2006, 24, 1248.	1.3	6

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37	Many-body effects in the electronic structure of Sn/Si(111)- $\sqrt{3}\times\sqrt{3}$ . Journal of Physics Condensed Matter, 2001, 13, L521-L528.	0.7	4
38	Nanomechanics and Raman Spectroscopy of in Situ Native Carbohydrate Storage Granules for Enhancing Starch Quality and Lignocellulosic Biomass Production. ACS Omega, 2020, 5, 2594-2602.	1.6	4
39	In situ plant materials hyperspectral imaging by multimodal scattering near-field optical microscopy. Communications Materials, 2021, 2, .	2.9	4
40	A new method to characterize chemically and topographically nanopatterned surfaces. Journal of Biotechnology, 2006, 126, 196-204.	1.9	3
41	Ligand Nano-cluster Arrays in a Supported Lipid Bilayer. Journal of Visualized Experiments, 2017, , .	0.2	3
42	Novel and Innovative Interface as Potential Active Layer in Chem-FET Sensor Devices for the Specific Sensing of Cs <sup>+</sup> . ACS Applied Materials & Interfaces, 2019, 11, 47635-47641.	4.0	3
43	Electronic structure of $\sqrt{3}\times\sqrt{3}$ and $\sqrt{3}\times\sqrt{3}$ phases of Si(111)-Sn. Applied Surface Science, 2000, 162-163, 375-379.	3.1	1
44	Towards Mechanical Clinical Markers in Sickle Cell Disease: Dynamics of Red Blood Cells in Low Shear Flow. Blood, 2018, 132, 4914-4914.	0.6	1
45	Correlated surface bands of the prototypical interface Sn/Si(1 1 1)- $\sqrt{3}\times\sqrt{3}$ . Applied Surface Science, 2001, 175-176, 195-200.	3.1	0