

# Daniele Chiappe

## List of Publications by Year in descending order

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57  
papers

4,238  
citations

186209

28  
h-index

149623

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all docs

57  
docs citations

57  
times ranked

5407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicene field-effect transistors operating at room temperature. <i>Nature Nanotechnology</i> , 2015, 10, 227-231.	15.6	1,429
2	Two-Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS <sub>2</sub> Surface. <i>Advanced Materials</i> , 2014, 26, 2096-2101.	11.1	311
3	Local Electronic Properties of Corrugated Silicene Phases. <i>Advanced Materials</i> , 2012, 24, 5088-5093.	11.1	278
4	Evidence for graphite-like hexagonal AlN nanosheets epitaxially grown on single crystal Ag(111). <i>Applied Physics Letters</i> , 2013, 103, .	1.5	251
5	Getting through the Nature of Silicene: An sp <sup>2</sup> vs sp <sup>3</sup> Two-Dimensional Silicon Nanosheet. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16719-16724.	1.5	163
6	Hindering the Oxidation of Silicene with Non-Reactive Encapsulation. <i>Advanced Functional Materials</i> , 2013, 23, 4340-4344.	7.8	161
7	X-Ray Detected Magnetic Hysteresis of Thermally Evaporated Terbium Double-Decker Oriented Films. <i>Advanced Materials</i> , 2010, 22, 5488-5493.	11.1	122
8	Circular Dichroism in the Optical Second-Harmonic Emission of Curved Gold Metal Nanowires. <i>Physical Review Letters</i> , 2011, 107, 257401.	2.9	98
9	Re-radiation Enhancement in Polarized Surface-Enhanced Resonant Raman Scattering of Randomly Oriented Molecules on Self-Organized Gold Nanowires. <i>ACS Nano</i> , 2011, 5, 5945-5956.	7.3	94
10	Self-organized metal nanowire arrays with tunable optical anisotropy. <i>Applied Physics Letters</i> , 2008, 93, 163104.	1.5	81
11	Magnetic Bistability in a Submonolayer of Sublimated Fe <sub>4</sub> Single-Molecule Magnets. <i>Nano Letters</i> , 2015, 15, 535-541.	4.5	63
12	Tailored second harmonic generation from self-organized metal nano-wires arrays. <i>Optics Express</i> , 2009, 17, 3603.	1.7	61
13	Controlled Sulfurization Process for the Synthesis of Large Area MoS <sub>2</sub> Films and MoS <sub>2</sub> /WS <sub>2</sub> Heterostructures. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500635.	1.9	61
14	2D materials: roadmap to CMOS integration. , 2018, , .		60
15	Thermal Deposition of Intact Tetrairon(III) Single-Molecule Magnets in High-Vacuum Conditions. <i>Small</i> , 2009, 5, 1460-1466.	5.2	58
16	Multilayer MoS <sub>2</sub> growth by metal and metal oxide sulfurization. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1295-1304.	2.7	57
17	SERS Enhancement and Field Confinement in Nanosensors Based on Self-Organized Gold Nanowires Produced by Ion-Beam Sputtering. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8571-8580.	1.5	51
18	Patterning polycrystalline thin films by defocused ion beam: The influence of initial morphology on the evolution of self-organized nanostructures. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	50

#	ARTICLE	IF	CITATIONS
19	Vibrational properties of epitaxial silicene layers on (111) Ag. Applied Surface Science, 2014, 291, 113-117.	3.1	49
20	Layer-controlled epitaxy of 2D semiconductors: bridging nanoscale phenomena to wafer-scale uniformity. Nanotechnology, 2018, 29, 425602.	1.3	48
21	Spin Structure of Surface-Supported Single-Molecule Magnets from Isomorphous Replacement and X-ray Magnetic Circular Dichroism. Inorganic Chemistry, 2011, 50, 2911-2917.	1.9	47
22	Hybrid Plasmonic-Photonic Nanostructures: Gold Nanocrescents Over Opals. Advanced Optical Materials, 2013, 1, 389-396.	3.6	44
23	Nucleation and growth mechanisms of Al <sub>2</sub> O <sub>3</sub> atomic layer deposition on synthetic polycrystalline MoS <sub>2</sub> . Journal of Chemical Physics, 2017, 146, 052810.	1.2	41
24	Material-Selective Doping of 2D TMDC through Al <sub>x</sub> O <sub>y</sub> Encapsulation. ACS Applied Materials & Interfaces, 2019, 11, 42697-42707.	4.0	37
25	Exploring the morphological and electronic properties of silicene superstructures. Applied Surface Science, 2014, 291, 109-112.	3.1	34
26	Improving MOCVD MoS <sub>2</sub> Electrical Performance: Impact of Minimized Water and Air Exposure Conditions. IEEE Electron Device Letters, 2017, 38, 1606-1609.	2.2	33
27	Tunneling Transistors Based on MoS <sub>2</sub> /MoTe <sub>2</sub> Van der Waals Heterostructures. IEEE Journal of the Electron Devices Society, 2018, 6, 1048-1055.	1.2	33
28	Band alignment at interfaces of few-monolayer MoS <sub>2</sub> with SiO <sub>2</sub> and HfO <sub>2</sub> . Microelectronic Engineering, 2015, 147, 294-297.	1.1	31
29	Self-organized broadband light trapping in thin film amorphous silicon solar cells. Nanotechnology, 2013, 24, 225201.	1.3	30
30	Transparent Plasmonic Nanowire Electrodes via Self-Organised Ion Beam Nanopatterning. Small, 2013, 9, 913-919.	5.2	28
31	Stability and universal encapsulation of epitaxial Xenes. Faraday Discussions, 2021, 227, 171-183.	1.6	24
32	Evidence of anomalous refraction of self-assembled curved gold nanowires. Applied Physics Letters, 2012, 100, .	1.5	23
33	Theoretical aspects of graphene-like group IV semiconductors. Applied Surface Science, 2014, 291, 98-103.	3.1	23
34	Nucleation and temperature-driven phase transitions of silicene superstructures on Ag(111). Journal of Physics Condensed Matter, 2015, 27, 255005.	0.7	23
35	Analysis of admittance measurements of MOS capacitors on CVD grown bilayer MoS <sub>2</sub> . 2D Materials, 2019, 6, 035035.	2.0	19
36	Optical properties of biaxial nanopatterned gold plasmonic nanowired grid polarizer. Optics Express, 2013, 21, 30918.	1.7	18

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37	A systematic study of various 2D materials in the light of defect formation and oxidation. Physical Chemistry Chemical Physics, 2019, 21, 1089-1099.	1.3	17
38	Direct and indirect optical transitions in bulk and atomically thin MoS <sub>2</sub> studied by photoreflectance and photoacoustic spectroscopy. Journal of Applied Physics, 2019, 125, .	1.1	17
39	Effects of buried grain boundaries in multilayer MoS <sub>2</sub> . Nanotechnology, 2019, 30, 285705.	1.3	16
40	Amplified nanopatterning by self-organized shadow mask ion lithography. Applied Physics Letters, 2010, 97, .	1.5	15
41	Tailoring resistivity anisotropy of nanorippled metal films: Electrons surfing on gold waves. Physical Review B, 2012, 86, .	1.1	15
42	Modulating the resistivity of MoS <sub>2</sub> through low energy phosphorus plasma implantation. Applied Physics Letters, 2017, 110, .	1.5	15
43	The Role of Nonidealities in the Scaling of MoS <sub>2</sub> FETs. IEEE Transactions on Electron Devices, 2018, 65, 4635-4640.	1.6	14
44	Transport properties of chemically synthesized MoS <sub>2</sub> – Dielectric effects and defects scattering. Applied Physics Letters, 2016, 109, 233102.	1.5	12
45	Paramagnetic Intrinsic Defects in Polycrystalline Large-Area 2D MoS <sub>2</sub> Films Grown on SiO <sub>2</sub> by Mo Sulfurization. Nanoscale Research Letters, 2017, 12, 283.	3.1	12
46	Impact of MoS <sub>2</sub> layer transfer on electrostatics of MoS <sub>2</sub> /SiO <sub>2</sub> interface. Nanotechnology, 2019, 30, 055702.	1.3	11
47	GaAs nanostructuring by self-organized stencil mask ion lithography. Journal of Applied Physics, 2011, 110, 114321.	1.1	9
48	Tailoring broadband light trapping of GaAs and Si substrates by self-organised nanopatterning. Journal of Applied Physics, 2014, 115, .	1.1	9
49	Analysis of Transferred MoS <sub>2</sub> Layers Grown by MOCVD: Evidence of Mo Vacancy Related Defect Formation. ECS Journal of Solid State Science and Technology, 2020, 9, 093001.	0.9	9
50	Wetting process in superhydrophobic disordered surfaces. Soft Matter, 2010, 6, 1409.	1.2	8
51	IR-Mueller matrix ellipsometry of self-assembled nanopatterned gold grid polarizer. Applied Surface Science, 2017, 421, 728-737.	3.1	8
52	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. ECS Transactions, 2013, 58, 217-227.	0.3	5
53	Demonstration of Direction Dependent Conduction through MoS <sub>2</sub> Films Prepared by Tunable Mass Transport Fabrication. ECS Journal of Solid State Science and Technology, 2016, 5, Q3046-Q3049.	0.9	5
54	Energy Band Alignment of Few-Monolayer WS <sub>2</sub> and WSe <sub>2</sub> with SiO <sub>2</sub> Using Internal Photoemission Spectroscopy. ECS Journal of Solid State Science and Technology, 2020, 9, 093009.	0.9	4

#	ARTICLE	IF	CITATIONS
55	Spin-on-diffusants for doping in transition metal dichalcogenide semiconductors. Applied Physics Letters, 2019, 114, 212102.	1.5	1
56	Processing Stability of Monolayer WS <sub>2</sub> on SiO <sub>2</sub> . Nano Express, 2021, 2, 024004.	1.2	1
57	Transition from Heterogeneous to Homogeneous Regime in Disordered Superhydrophobic Surfaces. E-Journal of Surface Science and Nanotechnology, 2010, 8, 275-277.	0.1	1