

Daniele Chiappe

List of Publications by Year in descending order

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57
papers

4,238
citations

186209

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56
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57
all docs

57
docs citations

57
times ranked

5407
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and universal encapsulation of epitaxial Xenes. Faraday Discussions, 2021, 227, 171-183.	1.6	24
2	Processing Stability of Monolayer WS ₂ on SiO ₂ . Nano Express, 2021, 2, 024004.	1.2	1
3	Analysis of Transferred MoS ₂ 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
4	Energy Band Alignment of Few-Monolayer WS ₂ and WSe ₂ with SiO ₂ Using Internal Photoemission Spectroscopy. ECS Journal of Solid State Science and Technology, 2020, 9, 093009.	0.9	4
5	Material-Selective Doping of 2D TMDC through Al _x O _y Encapsulation. ACS Applied Materials & Interfaces, 2019, 11, 42697-42707.	4.0	37
6	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
7	Spin-on-diffusants for doping in transition metal dichalcogenide semiconductors. Applied Physics Letters, 2019, 114, 212102.	1.5	1
8	Analysis of admittance measurements of MOS capacitors on CVD grown bilayer MoS ₂ . 2D Materials, 2019, 6, 035035.	2.0	19
9	Effects of buried grain boundaries in multilayer MoS ₂ . Nanotechnology, 2019, 30, 285705.	1.3	16
10	Direct and indirect optical transitions in bulk and atomically thin MoS ₂ studied by photoreflectance and photoacoustic spectroscopy. Journal of Applied Physics, 2019, 125, .	1.1	17
11	Impact of MoS ₂ layer transfer on electrostatics of MoS ₂ /SiO ₂ interface. Nanotechnology, 2019, 30, 055702.	1.3	11
12	Tunneling Transistors Based on MoS ₂ /MoTe ₂ Van der Waals Heterostructures. IEEE Journal of the Electron Devices Society, 2018, 6, 1048-1055.	1.2	33
13	2D materials: roadmap to CMOS integration. , 2018, , .		60
14	The Role of Nonidealities in the Scaling of MoS ₂ FETs. IEEE Transactions on Electron Devices, 2018, 65, 4635-4640.	1.6	14
15	Layer-controlled epitaxy of 2D semiconductors: bridging nanoscale phenomena to wafer-scale uniformity. Nanotechnology, 2018, 29, 425602.	1.3	48
16	Paramagnetic Intrinsic Defects in Polycrystalline Large-Area 2D MoS ₂ Films Grown on SiO ₂ by Mo Sulfurization. Nanoscale Research Letters, 2017, 12, 283.	3.1	12
17	IR-Mueller matrix ellipsometry of self-assembled nanopatterned gold grid polarizer. Applied Surface Science, 2017, 421, 728-737.	3.1	8
18	Nucleation and growth mechanisms of Al ₂ O ₃ atomic layer deposition on synthetic polycrystalline MoS ₂ . Journal of Chemical Physics, 2017, 146, 052810.	1.2	41

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19	Improving MOCVD MoS ₂ Electrical Performance: Impact of Minimized Water and Air Exposure Conditions. IEEE Electron Device Letters, 2017, 38, 1606-1609.	2.2	33
20	Modulating the resistivity of MoS ₂ through low energy phosphorus plasma implantation. Applied Physics Letters, 2017, 110, .	1.5	15
21	Controlled Sulfurization Process for the Synthesis of Large Area MoS ₂ Films and MoS ₂ /WS ₂ Heterostructures. Advanced Materials Interfaces, 2016, 3, 1500635.	1.9	61
22	Transport properties of chemically synthesized MoS ₂ – Dielectric effects and defects scattering. Applied Physics Letters, 2016, 109, 233102.	1.5	12
23	Demonstration of Direction Dependent Conduction through MoS ₂ Films Prepared by Tunable Mass Transport Fabrication. ECS Journal of Solid State Science and Technology, 2016, 5, Q3046-Q3049.	0.9	5
24	Multilayer MoS ₂ growth by metal and metal oxide sulfurization. Journal of Materials Chemistry C, 2016, 4, 1295-1304.	2.7	57
25	Silicene field-effect transistors operating at room temperature. Nature Nanotechnology, 2015, 10, 227-231.	15.6	1,429
26	Band alignment at interfaces of few-monolayer MoS ₂ with SiO ₂ and HfO ₂ . Microelectronic Engineering, 2015, 147, 294-297.	1.1	31
27	Nucleation and temperature-driven phase transitions of silicene superstructures on Ag(111). Journal of Physics Condensed Matter, 2015, 27, 255005.	0.7	23
28	Magnetic Bistability in a Submonolayer of Sublimated Fe ₄ Single-Molecule Magnets. Nano Letters, 2015, 15, 535-541.	4.5	63
29	Tailoring broadband light trapping of GaAs and Si substrates by self-organised nanopatterning. Journal of Applied Physics, 2014, 115, .	1.1	9
30	Two-Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS ₂ Surface. Advanced Materials, 2014, 26, 2096-2101.	11.1	311
31	SERS Enhancement and Field Confinement in Nanosensors Based on Self-Organized Gold Nanowires Produced by Ion-Beam Sputtering. Journal of Physical Chemistry C, 2014, 118, 8571-8580.	1.5	51
32	Exploring the morphological and electronic properties of silicene superstructures. Applied Surface Science, 2014, 291, 109-112.	3.1	34
33	Vibrational properties of epitaxial silicene layers on (111) Ag. Applied Surface Science, 2014, 291, 113-117.	3.1	49
34	Theoretical aspects of graphene-like group IV semiconductors. Applied Surface Science, 2014, 291, 98-103.	3.1	23
35	Getting through the Nature of Silicene: An sp ² – sp ³ Two-Dimensional Silicon Nanosheet. Journal of Physical Chemistry C, 2013, 117, 16719-16724.	1.5	163
36	Evidence for graphite-like hexagonal AlN nanosheets epitaxially grown on single crystal Ag(111). Applied Physics Letters, 2013, 103, .	1.5	251

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37	Transparent Plasmonic Nanowire Electrodes via Self-Organised Ion Beam Nanopatterning. <i>Small</i> , 2013, 9, 913-919.	5.2	28
38	Hybrid Plasmonic-Photonic Nanostructures: Gold Nanocrescents Over Opals. <i>Advanced Optical Materials</i> , 2013, 1, 389-396.	3.6	44
39	Self-organized broadband light trapping in thin film amorphous silicon solar cells. <i>Nanotechnology</i> , 2013, 24, 225201.	1.3	30
40	Hindering the Oxidation of Silicene with Non-Reactive Encapsulation. <i>Advanced Functional Materials</i> , 2013, 23, 4340-4344.	7.8	161
41	Optical properties of biaxial nanopatterned gold plasmonic nanowired grid polarizer. <i>Optics Express</i> , 2013, 21, 30918.	1.7	18
42	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. <i>ECS Transactions</i> , 2013, 58, 217-227.	0.3	5
43	Evidence of anomalous refraction of self-assembled curved gold nanowires. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	23
44	Tailoring resistivity anisotropy of nanorippled metal films: Electrons surfing on gold waves. <i>Physical Review B</i> , 2012, 86, .	1.1	15
45	Local Electronic Properties of Corrugated Silicene Phases. <i>Advanced Materials</i> , 2012, 24, 5088-5093.	11.1	278
46	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
47	Spin Structure of Surface-Supported Single-Molecule Magnets from Isomorphous Replacement and X-ray Magnetic Circular Dichroism. <i>Inorganic Chemistry</i> , 2011, 50, 2911-2917.	1.9	47
48	Circular Dichroism in the Optical Second-Harmonic Emission of Curved Gold Metal Nanowires. <i>Physical Review Letters</i> , 2011, 107, 257401.	2.9	98
49	GaAs nanostructuring by self-organized stencil mask ion lithography. <i>Journal of Applied Physics</i> , 2011, 110, 114321.	1.1	9
50	X-Ray Detected Magnetic Hysteresis of Thermally Evaporated Terbium Double-Decker Oriented Films. <i>Advanced Materials</i> , 2010, 22, 5488-5493.	11.1	122
51	Amplified nanopatterning by self-organized shadow mask ion lithography. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	15
52	Wetting process in superhydrophobic disordered surfaces. <i>Soft Matter</i> , 2010, 6, 1409.	1.2	8
53	Transition from Heterogeneous to Homogeneous Regime in Disordered Superhydrophobic Surfaces. <i>E-Journal of Surface Science and Nanotechnology</i> , 2010, 8, 275-277.	0.1	1
54	Thermal Deposition of Intact Tetrairon(III) Single-Molecule Magnets in High-Vacuum Conditions. <i>Small</i> , 2009, 5, 1460-1466.	5.2	58

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55	Tailored second harmonic generation from self-organized metal nano-wires arrays. Optics Express, 2009, 17, 3603.	1.7	61
56	Self-organized metal nanowire arrays with tunable optical anisotropy. Applied Physics Letters, 2008, 93, 163104.	1.5	81
57	Patterning polycrystalline thin films by defocused ion beam: The influence of initial morphology on the evolution of self-organized nanostructures. Journal of Applied Physics, 2008, 104, .	1.1	50