Daniele Chiappe

List of Publications by Year
in descending order

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57	4,238	186265	149698
papers	citations	28 h-index	56 g-index

57	57	57	5407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stability and universal encapsulation of epitaxial Xenes. Faraday Discussions, 2021, 227, 171-183.	3.2	24
2	Processing Stability of Monolayer WS₂ on SiO₂. Nano Express, 2021, 2, 024004.	2.4	1
3	Analysis of Transferred MoS₂ Layers Grown by MOCVD: Evidence of Mo Vacancy Related Defect Formation. ECS Journal of Solid State Science and Technology, 2020, 9, 093001.	1.8	9
4	Energy Band Alignment of Few-Monolayer WS₂ and WSe₂ with SiO₂ Using Internal Photoemission Spectroscopy. ECS Journal of Solid State Science and Technology, 2020, 9, 093009.	1.8	4
5	Material-Selective Doping of 2D TMDC through Al_xO_y Encapsulation. ACS Applied Materials & Interfaces, 2019, 11, 42697-42707.	8.0	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.	2.8	17
7	Spin-on-diffussants for doping in transition metal dichalcogenide semiconductors. Applied Physics Letters, 2019, 114, 212102.	3.3	1
8	Analysis of admittance measurements of MOS capacitors on CVD grown bilayer MoS ₂. 2D Materials, 2019, 6, 035035.	4.4	19
9	Effects of buried grain boundaries in multilayer MoS2. Nanotechnology, 2019, 30, 285705.	2.6	16
10	Direct and indirect optical transitions in bulk and atomically thin MoS2 studied by photoreflectance and photoacoustic spectroscopy. Journal of Applied Physics, 2019, 125, .	2.5	17
11	Impact of MoS₂ layer transfer on electrostatics of MoS₂/SiO₂ interface. Nanotechnology, 2019, 30, 055702.	2.6	11
12	Tunneling Transistors Based on MoS₂/MoTe₂ Van der Waals Heterostructures. IEEE Journal of the Electron Devices Society, 2018, 6, 1048-1055.	2.1	33
13	2D materials: roadmap to CMOS integration. , 2018, , .		60
14	The Role of Nonidealities in the Scaling of MoS₂ FETs. IEEE Transactions on Electron Devices, 2018, 65, 4635-4640.	3.0	14
15	Layer-controlled epitaxy of 2D semiconductors: bridging nanoscale phenomena to wafer-scale uniformity. Nanotechnology, 2018, 29, 425602.	2.6	48
16	Paramagnetic Intrinsic Defects in Polycrystalline Large-Area 2D MoS2 Films Grown on SiO2 by Mo Sulfurization. Nanoscale Research Letters, 2017, 12, 283.	5.7	12
17	IR-Mueller matrix ellipsometry of self-assembled nanopatterned gold grid polarizer. Applied Surface Science, 2017, 421, 728-737.	6.1	8
18	Nucleation and growth mechanisms of Al2O3 atomic layer deposition on synthetic polycrystalline MoS2. Journal of Chemical Physics, 2017, 146, 052810.	3.0	41

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19	Improving MOCVD MoS₂Electrical Performance: Impact of Minimized Water and Air Exposure Conditions. IEEE Electron Device Letters, 2017, 38, 1606-1609.	3.9	33
20	Modulating the resistivity of MoS2 through low energy phosphorus plasma implantation. Applied Physics Letters, 2017, 110, .	3.3	15
21	Controlled Sulfurization Process for the Synthesis of Large Area MoS₂ Films and MoS₂/WS₂ Heterostructures. Advanced Materials Interfaces, 2016, 3, 1500635.	3.7	61
22	Transport properties of chemically synthesized MoS2 â€“ Dielectric effects and defects scattering. Applied Physics Letters, 2016, 109, 233102.	3.3	12
23	Demonstration of Direction Dependent Conduction through MoS₂Films Prepared by Tunable Mass Transport Fabrication. ECS Journal of Solid State Science and Technology, 2016, 5, Q3046-Q3049.	1.8	5
24	Multilayer MoS₂ growth by metal and metal oxide sulfurization. Journal of Materials Chemistry C, 2016, 4, 1295-1304.	5.5	57
25	Silicene field-effect transistors operating at room temperature. Nature Nanotechnology, 2015, 10, 227-231.	31.5	1,429
26	Band alignment at interfaces of few-monolayer MoS2 with SiO2 and HfO2. Microelectronic Engineering, 2015, 147, 294-297.	2.4	31
27	Nucleation and temperature-driven phase transitions of silicene superstructures on Ag(1â€‰1â€‰1). Journal of Physics Condensed Matter, 2015, 27, 255005.	1.8	23
28	Magnetic Bistability in a Submonolayer of Sublimated Fe₄ Single-Molecule Magnets. Nano Letters, 2015, 15, 535-541.	9.1	63
29	Tailoring broadband light trapping of GaAs and Si substrates by self-organised nanopatterning. Journal of Applied Physics, 2014, 115, .	2.5	9
30	Twoâ€Ðimensional Si Nanosheets with Local Hexagonal Structure on a MoS₂ Surface. Advanced Materials, 2014, 26, 2096-2101.	21.0	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.	3.1	51
32	Exploring the morphological and electronic properties of silicene superstructures. Applied Surface Science, 2014, 291, 109-112.	6.1	34
33	Vibrational properties of epitaxial silicene layers on (111) Ag. Applied Surface Science, 2014, 291, 113-117.	6.1	49
34	Theoretical aspects of graphene-like group IV semiconductors. Applied Surface Science, 2014, 291, 98-103.	6.1	23
35	Getting through the Nature of Silicene: An sp²â€“sp³ Two-Dimensional Silicon Nanosheet. Journal of Physical Chemistry C, 2013, 117, 16719-16724.	3.1	163
36	Evidence for graphite-like hexagonal AlN nanosheets epitaxially grown on single crystal Ag(111). Applied Physics Letters, 2013, 103, .	3.3	251

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37	Transparent Plasmonic Nanowire Electrodes via Selfâ€Organised Ion Beam Nanopatterning. Small, 2013, 9, 913-919.	10.0	28
38	Hybrid Plasmonicâ€“Photonic Nanostructures: Gold Nanocrescents Over Opals. Advanced Optical Materials, 2013, 1, 389-396.	7.3	44
39	Self-organized broadband light trapping in thin film amorphous silicon solar cells. Nanotechnology, 2013, 24, 225201.	2.6	30
40	Hindering the Oxidation of Silicene with Nonâ€Reactive Encapsulation. Advanced Functional Materials, 2013, 23, 4340-4344.	14.9	161
41	Optical properties of biaxial nanopatterned gold plasmonic nanowired grid polarizer. Optics Express, 2013, 21, 30918.	3.4	18
42	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. ECS Transactions, 2013, 58, 217-227.	0.5	5
43	Evidence of anomalous refraction of self-assembled curved gold nanowires. Applied Physics Letters, 2012, 100, .	3.3	23
44	Tailoring resisitivity anisotropy of nanorippled metal films: Electrons surfing on gold waves. Physical Review B, 2012, 86, .	3.2	15
45	Local Electronic Properties of Corrugated Silicene Phases. Advanced Materials, 2012, 24, 5088-5093.	21.0	278
46	Re-radiation Enhancement in Polarized Surface-Enhanced Resonant Raman Scattering of Randomly Oriented Molecules on Self-Organized Gold Nanowires. ACS Nano, 2011, 5, 5945-5956.	14.6	94
47	Spin Structure of Surface-Supported Single-Molecule Magnets from Isomorphous Replacement and X-ray Magnetic Circular Dichroism. Inorganic Chemistry, 2011, 50, 2911-2917.	4.0	47
48	Circular Dichroism in the Optical Second-Harmonic Emission of Curved Gold Metal Nanowires. Physical Review Letters, 2011, 107, 257401.	7.8	98
49	GaAs nanostructuring by self-organized stencil mask ion lithography. Journal of Applied Physics, 2011, 110, 114321.	2.5	9
50	Xâ€Ray Detected Magnetic Hysteresis of Thermally Evaporated Terbium Doubleâ€Decker Oriented Films. Advanced Materials, 2010, 22, 5488-5493.	21.0	122
51	Amplified nanopatterning by self-organized shadow mask ion lithography. Applied Physics Letters, 2010, 97, .	3.3	15
52	Wetting process in superhydrophobic disordered surfaces. Soft Matter, 2010, 6, 1409.	2.7	8
53	Transition from Heterogeneous to Homogeneous Regime in Disordered Superhydrophobic Surfaces. E-Journal of Surface Science and Nanotechnology, 2010, 8, 275-277.	0.4	1
54	Thermal Deposition of Intact Tetrairon(III) Singleâ€Molecule Magnets in Highâ€Vacuum Conditions. Small, 2009, 5, 1460-1466.	10.0	58

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55	Tailored second harmonic generation from self-organized metal nano-wires arrays. Optics Express, 2009, 17, 3603.	3.4	61
56	Self-organized metal nanowire arrays with tunable optical anisotropy. Applied Physics Letters, 2008, 93, 163104.	3.3	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, .	2.5	50