

Christian Martella

List of Publications by Year in descending order

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62
papers

1,159
citations

393982

19
h-index

414034

32
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all docs

63
docs citations

63
times ranked

1682
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient Pressure Chemical Vapor Deposition of Flat and Vertically Aligned MoS ₂ Nanosheets. <i>Nanomaterials</i> , 2022, 12, 973.	1.9	12
2	Vapor phase epitaxy of antimonene-like nanocrystals on germanium by an MOCVD process. <i>Applied Surface Science</i> , 2021, 535, 147729.	3.1	6
3	Geometrical Engineering of Giant Optical Dichroism in Rippled MoS ₂ Nanosheets. <i>Advanced Optical Materials</i> , 2021, 9, 2001408.	3.6	6
4	Large-area flexible nanostripe electrodes featuring plasmon hybridization engineering. <i>Nano Research</i> , 2021, 14, 858-867.	5.8	3
5	Stability and universal encapsulation of epitaxial Xenes. <i>Faraday Discussions</i> , 2021, 227, 171-183.	1.6	24
6	Hybrid MoS ₂ /PEDOT:PSS transporting layers for interface engineering of nanoplatelet-based light-emitting diodes. <i>Dalton Transactions</i> , 2021, 50, 9208-9214.	1.6	2
7	Tailoring the Phase in Nanoscale MoTe ₂ Grown by Barrier-Assisted Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2021, 21, 2970-2976.	1.4	5
8	Broadband and Tunable Light Harvesting in Nanorippled MoS ₂ Ultrathin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13508-13516.	4.0	21
9	Optical Properties of Stanene-like Nanosheets on Al ₂ O ₃ (0001): Implications for Xene Photonics. <i>ACS Applied Nano Materials</i> , 2021, 4, 2351-2356.	2.4	7
10	Hydrophilic Character of Single-Layer MoS ₂ Grown on Ag(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 9479-9485.	1.5	11
11	Probing the Laser Ablation of Black Phosphorus by Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8704-8711.	1.5	4
12	Two-Dimensional Silicene-Stanene Heterostructures by Epitaxy. <i>Advanced Functional Materials</i> , 2021, 31, 2102797.	7.8	23
13	Large-Area MOVPE Growth of Topological Insulator Bi ₂ Te ₃ Epitaxial Layers on i-Si(111). <i>Crystal Growth and Design</i> , 2021, 21, 4023-4029.	1.4	9
14	How Oxygen Absorption Affects the Al ₂ O ₃ Encapsulated Blue Phosphorene-Au Alloy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100217.	1.2	1
15	The Rise of the Xenes: From the Synthesis to the Integration Processes for Electronics and Photonics. <i>Materials</i> , 2021, 14, 4170.	1.3	13
16	The Xenes Generations: A Taxonomy of Epitaxial Single-Element 2D Materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900439.	1.2	42
17	Fabrication of ordered SbTe and InGeTe nanostructures by selective MOCVD. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 144002.	1.3	2
18	Evidence of Plasmon Enhanced Charge Transfer in Large-Area Hybrid Au-MoS ₂ Metasurface. <i>Advanced Optical Materials</i> , 2020, 8, 2000653.	3.6	20

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19	Changing the Electronic Polarizability of Monolayer MoS ₂ by Perylene-Based Seeding Promoters. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000791.	1.9	13
20	Disassembling Silicene from Native Substrate and Transferring onto an Arbitrary Target Substrate. <i>Advanced Functional Materials</i> , 2020, 30, 2004546.	7.8	21
21	Ultra-broadband photon harvesting in large-area few-layer MoS ₂ nanostripe gratings. <i>Nanoscale</i> , 2020, 12, 24385-24393.	2.8	18
22	Thickness determination of anisotropic van der Waals crystals by raman spectroscopy: the case of black phosphorus. <i>Nanotechnology</i> , 2020, 31, 415703.	1.3	8
23	Two-dimensional Xenon and their device concepts for future micro- and nanoelectronics and energy applications. , 2020, , 181-219.		1
24	Prolonged Lifetime in Nanocrystal Light-Emitting Diodes Incorporating MoS ₂ -Based Conjugated Polyelectrolyte Interfacial Layer as an Alternative to PEDOT:PSS. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1186-1192.	2.0	9
25	Growth of 2D-molybdenum disulfide on top of magnetite and iron by chemical methods. <i>Thin Solid Films</i> , 2020, 701, 137943.	0.8	3
26	Tuning the transient opto-electronic properties of few-layer MoS ₂ nanosheets via substrate nano-patterning. <i>EPJ Web of Conferences</i> , 2020, 238, 07006.	0.1	0
27	High-Density Sb ₂ Te ₃ Nanopillars Arrays by Templated, Bottom-Up MOCVD Growth. <i>Small</i> , 2019, 15, 1901743.	5.2	10
28	Large-area patterning of substrate-conformal MoS ₂ nano-trenches. <i>Nano Research</i> , 2019, 12, 1851-1854.	5.8	16
29	Embedding epitaxial (blue) phosphorene in between device-compatible functional layers. <i>Nanoscale</i> , 2019, 11, 18232-18237.	2.8	15
30	Designer Shape Anisotropy on Transition-Metal-Dichalcogenide Nanosheets. <i>Advanced Materials</i> , 2018, 30, 1705615.	11.1	52
31	Bonding Character and Magnetism at the Interface Between Fe and MoS ₂ Nanosheets. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800015.	0.8	4
32	Electronic band structures of undoped and P-doped Si nanocrystals embedded in SiO ₂ . <i>Journal of Materials Chemistry C</i> , 2018, 6, 119-126.	2.7	8
33	Optical Conductivity of Two-Dimensional Silicon: Evidence of Dirac Electrodynamics. <i>Nano Letters</i> , 2018, 18, 7124-7132.	4.5	34
34	Light scattering properties of self-organized nanostructured substrates for thin-film solar cells. <i>Nanotechnology</i> , 2018, 29, 355301.	1.3	12
35	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS ₂ Sheets. <i>ACS Photonics</i> , 2018, 5, 3363-3371.	3.2	17
36	Anisotropic MoS ₂ Nanosheets Grown on Self-Organized Nanopatterned Substrates. <i>Advanced Materials</i> , 2017, 29, 1605785.	11.1	53

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37	IR-Mueller matrix ellipsometry of self-assembled nanopatterned gold grid polarizer. Applied Surface Science, 2017, 421, 728-737.	3.1	8
38	Structural, chemical and optical properties of cerium dioxide film prepared by atomic layer deposition on TiN and Si substrates. Thin Solid Films, 2017, 636, 78-84.	0.8	47
39	Self-Organized Nanoscale Roughness Engineering for Broadband Light Trapping in Thin Film Solar Cells. Applied Sciences (Switzerland), 2017, 7, 355.	1.3	5
40	Towards a uniform and large-scale deposition of MoS ₂ nanosheets via sulfurization of ultra-thin Mo-based solid films. Nanotechnology, 2016, 27, 175703.	1.3	59
41	Engineering the Growth of MoS ₂ via Atomic Layer Deposition of Molybdenum Oxide Film Precursor. Advanced Electronic Materials, 2016, 2, 1600330.	2.6	41
42	Plasmonics in Self-Organized Media. , 2016, , 3303-3318.		0
43	Self-organized plasmonic metasurfaces for all-optical modulation. Physical Review B, 2015, 91, .	1.1	24
44	Transparent aluminium nanowire electrodes with optical and electrical anisotropic response fabricated by defocused ion beam sputtering. Applied Surface Science, 2015, 327, 444-452.	3.1	18
45	Plasmonics in Self-Organized Media. , 2015, , 1-17.		1
46	Tailoring broadband light trapping of GaAs and Si substrates by self-organised nanopatterning. Journal of Applied Physics, 2014, 115, .	1.1	9
47	Broadband light trapping in nanopatterned thin film amorphous silicon solar cells. , 2014, , .		0
48	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
49	Second Harmonic Generation Circular Dichroism from Self-Ordered Hybrid Plasmonic-Photonic Nanosurfaces. Advanced Optical Materials, 2014, 2, 208-213.	3.6	46
50	Hybrid Plasmonic-Photonic Nanostructures: Gold Nanocrescents Over Opals. Advanced Optical Materials, 2013, 1, 389-396.	3.6	44
51	Self-organized broadband light trapping in thin film amorphous silicon solar cells. Nanotechnology, 2013, 24, 225201.	1.3	30
52	Optical properties of biaxial nanopatterned gold plasmonic nanowired grid polarizer. Optics Express, 2013, 21, 30918.	1.7	18
53	Measurement of the circular dichroism in the second harmonic optical signal produced by Au covered self ordered dielectric nanospheres. , 2013, , .		4
54	Study of the anomalous refraction produced by self assembled gold nanowires. , 2013, , .		0

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55	Second harmonic circular dichroism from Au covered polystyrene nanospheres. , 2013, , .		0
56	Anomalous refraction of self assembled gold nanowires studied by the generalized Snell's law. Photonics Letters of Poland, 2013, 5, .	0.2	1
57	Evidence of anomalous refraction of self-assembled curved gold nanowires. Applied Physics Letters, 2012, 100, .	1.5	23
58	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.	7.3	94
59	Circular Dichroism in the Optical Second-Harmonic Emission of Curved Gold Metal Nanowires. Physical Review Letters, 2011, 107, 257401.	2.9	98
60	Nanofriction of adsorbed monolayers on superconducting lead. Physical Review B, 2011, 84, .	1.1	7
61	Mueller matrix imaging of plasmonic polarizers on nanopatterned surface. Proceedings of SPIE, 2011, , .	0.8	2
62	Asymmetric transmission and anomalous refraction in metal nanowires metasurface. Journal of the European Optical Society-Rapid Publications, 0, 7, .	0.9	21