

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
g-index

63
all docs

63
docs citations

63
times ranked

1682
citing authors

#	ARTICLE	IF	CITATIONS
1	Circular Dichroism in the Optical Second-Harmonic Emission of Curved Gold Metal Nanowires. <i>Physical Review Letters</i> , 2011, 107, 257401.	2.9	98
2	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
3	Towards a uniform and large-scale deposition of MoS ₂ nanosheets via sulfurization of ultra-thin Mo-based solid films. <i>Nanotechnology</i> , 2016, 27, 175703.	1.3	59
4	Anisotropic MoS ₂ Nanosheets Grown on Self-Organized Nanopatterned Substrates. <i>Advanced Materials</i> , 2017, 29, 1605785.	11.1	53
5	Designer Shape Anisotropy on Transition-Metal-Dichalcogenide Nanosheets. <i>Advanced Materials</i> , 2018, 30, 1705615.	11.1	52
6	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
7	Structural, chemical and optical properties of cerium dioxide film prepared by atomic layer deposition on TiN and Si substrates. <i>Thin Solid Films</i> , 2017, 636, 78-84.	0.8	47
8	Second Harmonic Generation Circular Dichroism from Self-Ordered Hybrid Plasmonic-Photonic Nanosurfaces. <i>Advanced Optical Materials</i> , 2014, 2, 208-213.	3.6	46
9	Hybrid Plasmonic-Photonic Nanostructures: Gold Nanocrescents Over Opals. <i>Advanced Optical Materials</i> , 2013, 1, 389-396.	3.6	44
10	The Xenos Generations: A Taxonomy of Epitaxial Single-Element 2D Materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900439.	1.2	42
11	Engineering the Growth of MoS ₂ via Atomic Layer Deposition of Molybdenum Oxide Film Precursor. <i>Advanced Electronic Materials</i> , 2016, 2, 1600330.	2.6	41
12	Optical Conductivity of Two-Dimensional Silicon: Evidence of Dirac Electrodynamics. <i>Nano Letters</i> , 2018, 18, 7124-7132.	4.5	34
13	Self-organized broadband light trapping in thin film amorphous silicon solar cells. <i>Nanotechnology</i> , 2013, 24, 225201.	1.3	30
14	Self-organized plasmonic metasurfaces for all-optical modulation. <i>Physical Review B</i> , 2015, 91, .	1.1	24
15	Stability and universal encapsulation of epitaxial Xenos. <i>Faraday Discussions</i> , 2021, 227, 171-183.	1.6	24
16	Evidence of anomalous refraction of self-assembled curved gold nanowires. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	23
17	Two-Dimensional Silicene-Stanene Heterostructures by Epitaxy. <i>Advanced Functional Materials</i> , 2021, 31, 2102797.	7.8	23
18	Asymmetric transmission and anomalous refraction in metal nanowires metasurface. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 7, .	0.9	21

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19	Disassembling Silicene from Native Substrate and Transferring onto an Arbitrary Target Substrate. <i>Advanced Functional Materials</i> , 2020, 30, 2004546.	7.8	21
20	Broadband and Tunable Light Harvesting in Nanorippled MoS ₂ Ultrathin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13508-13516.	4.0	21
21	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
22	Optical properties of biaxial nanopatterned gold plasmonic nanowired grid polarizer. <i>Optics Express</i> , 2013, 21, 30918.	1.7	18
23	Transparent aluminium nanowire electrodes with optical and electrical anisotropic response fabricated by defocused ion beam sputtering. <i>Applied Surface Science</i> , 2015, 327, 444-452.	3.1	18
24	Ultra-broadband photon harvesting in large-area few-layer MoS ₂ nanostripe gratings. <i>Nanoscale</i> , 2020, 12, 24385-24393.	2.8	18
25	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS ₂ Sheets. <i>ACS Photonics</i> , 2018, 5, 3363-3371.	3.2	17
26	Large-area patterning of substrate-conformal MoS ₂ nano-trenches. <i>Nano Research</i> , 2019, 12, 1851-1854.	5.8	16
27	Embedding epitaxial (blue) phosphorene in between device-compatible functional layers. <i>Nanoscale</i> , 2019, 11, 18232-18237.	2.8	15
28	Changing the Electronic Polarizability of Monolayer MoS ₂ by Perylene-Based Seeding Promoters. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000791.	1.9	13
29	The Rise of the Xenos: From the Synthesis to the Integration Processes for Electronics and Photonics. <i>Materials</i> , 2021, 14, 4170.	1.3	13
30	Light scattering properties of self-organized nanostructured substrates for thin-film solar cells. <i>Nanotechnology</i> , 2018, 29, 355301.	1.3	12
31	Ambient Pressure Chemical Vapor Deposition of Flat and Vertically Aligned MoS ₂ Nanosheets. <i>Nanomaterials</i> , 2022, 12, 973.	1.9	12
32	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
33	High-Density Sb ₂ Te ₃ Nanopillars Arrays by Templated, Bottom-Up MOCVD Growth. <i>Small</i> , 2019, 15, 1901743.	5.2	10
34	Tailoring broadband light trapping of GaAs and Si substrates by self-organised nanopatterning. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	9
35	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
36	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

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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	Electronic band structures of undoped and P-doped Si nanocrystals embedded in SiO ₂ . Journal of Materials Chemistry C, 2018, 6, 119-126.	2.7	8
39	Thickness determination of anisotropic van der Waals crystals by raman spectroscopy: the case of black phosphorus. Nanotechnology, 2020, 31, 415703.	1.3	8
40	Nanofriction of adsorbed monolayers on superconducting lead. Physical Review B, 2011, 84, .	1.1	7
41	Optical Properties of Stanene-like Nanosheets on Al ₂ O ₃ (0001): Implications for Xene Photonics. ACS Applied Nano Materials, 2021, 4, 2351-2356.	2.4	7
42	Vapor phase epitaxy of antimonene-like nanocrystals on germanium by an MOCVD process. Applied Surface Science, 2021, 535, 147729.	3.1	6
43	Geometrical Engineering of Giant Optical Dichroism in Rippled MoS ₂ Nanosheets. Advanced Optical Materials, 2021, 9, 2001408.	3.6	6
44	Self-Organized Nanoscale Roughness Engineering for Broadband Light Trapping in Thin Film Solar Cells. Applied Sciences (Switzerland), 2017, 7, 355.	1.3	5
45	Tailoring the Phase in Nanoscale MoTe ₂ Grown by Barrier-Assisted Chemical Vapor Deposition. Crystal Growth and Design, 2021, 21, 2970-2976.	1.4	5
46	Measurement of the circular dichroism in the second harmonic optical signal produced by Au covered self ordered dielectric nanospheres. , 2013, , .		4
47	Bonding Character and Magnetism at the Interface Between Fe and MoS ₂ Nanosheets. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800015.	0.8	4
48	Probing the Laser Ablation of Black Phosphorus by Raman Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 8704-8711.	1.5	4
49	Growth of 2D-molybdenum disulfide on top of magnetite and iron by chemical methods. Thin Solid Films, 2020, 701, 137943.	0.8	3
50	Large-area flexible nanostripe electrodes featuring plasmon hybridization engineering. Nano Research, 2021, 14, 858-867.	5.8	3
51	Mueller matrix imaging of plasmonic polarizers on nanopatterned surface. Proceedings of SPIE, 2011, , .	0.8	2
52	Fabrication of ordered Sb ²⁺ Te and In ²⁺ Ge ²⁺ Te nanostructures by selective MOCVD. Journal Physics D: Applied Physics, 2020, 53, 144002.	1.3	2
53	Hybrid MoS ₂ /PEDOT:PSS transporting layers for interface engineering of nanoplatelet-based light-emitting diodes. Dalton Transactions, 2021, 50, 9208-9214.	1.6	2
54	Two-dimensional Xenons and their device concepts for future micro- and nanoelectronics and energy applications. , 2020, , 181-219.		1

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55	How Oxygen Absorption Affects the Al ₂ O ₃ Encapsulated Blue Phosphorene Au Alloy. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100217.	1.2	1
56	Plasmonics in Self-Organized Media. , 2015, , 1-17.		1
57	Anomalous refraction of self assembled gold nanowires studied by the generalized Snell's law. Photonics Letters of Poland, 2013, 5, .	0.2	1
58	Study of the anomalous refraction produced by self assembled gold nanowires. , 2013, , .		0
59	Second harmonic circular dichroism from Au covered polystyrene nanospheres. , 2013, , .		0
60	Broadband light trapping in nanopatterned thin film amorphous silicon solar cells. , 2014, , .		0
61	Plasmonics in Self-Organized Media. , 2016, , 3303-3318.		0
62	Tuning the transient opto-electronic properties of few-layer MoS ₂ nanosheets via substrate nano-patterning. EPJ Web of Conferences, 2020, 238, 07006.	0.1	0