Eugenio Luigi Cinquanta

List of Publications by Year
in descending order

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45 papers	3,200 citations	304602 22 h-index	330025 37 g-index
45 all docs	45 docs citations	45 times ranked	4218 citing authors

#	Article	IF	Citations
1	Dynamics of Two Distinct Exciton Populations in Methyl-Functionalized Germanane. Nano Letters, 2022, 22, 1183-1189.	4.5	3
2	Stability and universal encapsulation of epitaxial Xenes. Faraday Discussions, 2021, 227, 171-183.	1.6	24
3	Time-domain spectroscopy of methane excited by resonant high-energy mid-IR pulses. JPhys Photonics, 2021, 3, 034020.	2.2	0
4	(INVITED) Emerging routes to light-matter interaction in two-dimensional materials. Optical Materials: X, 2021, 12, 100088.	0.3	1
5	Anisotropic Complex Refractive Indices of Atomically Thin Materials: Determination of the Optical Constants of Few-Layer Black Phosphorus. Materials, 2020, 13, 5736.	1.3	6
6	Ultrafast charge carrier dynamics in quantum confined 2D perovskite. Journal of Chemical Physics, 2020, 152, 214705.	1.2	12
7	Influence of Surface Chemistry on Water Absorption in Functionalized Germanane. Chemistry of Materials, 2020, 32, 1537-1544.	3.2	8
8	Insights into the C Distribution in Si:C/Si:C:P and the Annealing Behavior of Si:C Layers. ECS Journal of Solid State Science and Technology, 2019, 8, P209-P216.	0.9	0
9	Ultrafast THz Probe of Photoinduced Polarons in Lead-Halide Perovskites. Physical Review Letters, 2019, 122, 166601.	2.9	98
10	Encapsulated Silicene Field-Effect Transistors. Nanoscience and Technology, 2018, , 235-254.	1.5	1
11	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS₂ Sheets. ACS Photonics, 2018, 5, 3363-3371.	3.2	17
12	Silicon Nanosheets: Crossover between Multilayer Silicene and Diamond-like Growth Regime. ACS Nano, 2017, 11, 3376-3382.	7.3	61
13	Anisotropic MoS₂ Nanosheets Grown on Selfâ€Organized Nanopatterned Substrates. Advanced Materials, 2017, 29, 1605785.	11.1	53
14	Ultrafast carrier dynamics of epitaxial silicene. , 2017, , .		3
15	Optical Parametric Amplification Techniques for the Generation of High-Energy Few-Optical-Cycles IR Pulses for Strong Field Applications. Applied Sciences (Switzerland), 2017, 7, 265.	1.3	47
16	MOS2Impurities: Evidence of Native Cs Impurities and Metal-Insulator Transition in MoS2Natural Crystals (Adv. Electron. Mater. 6/2016). Advanced Electronic Materials, 2016, 2, .	2.6	0
17	Electron Confinement at the Si/MoS₂ Heterosheet Interface. Advanced Materials Interfaces, 2016, 3, 1500619.	1.9	28
18	Structural, optical and compositional stability of MoS ₂ multi-layer flakes under high dose electron beam irradiation. 2D Materials, 2016, 3, 025024.	2.0	19

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19	Towards a uniform and large-scale deposition of MoS₂nanosheets via sulfurization of ultra-thin Mo-based solid films. Nanotechnology, 2016, 27, 175703.	1.3	59
20	Engineering the Growth of MoS₂ via Atomic Layer Deposition of Molybdenum Oxide Film Precursor. Advanced Electronic Materials, 2016, 2, 1600330.	2.6	41
21	Novel near-infrared emission from crystal defects in MoS2 multilayer flakes. Nature Communications, 2016, 7, 13044.	5.8	60
22	Evidence of Native Cs Impurities and Metalâ€“Insulator Transition in MoS₂ Natural Crystals. Advanced Electronic Materials, 2016, 2, 1600091.	2.6	12
23	Two-dimensional silicon: the advent of silicene. 2D Materials, 2016, 3, 012001.	2.0	155
24	Optical response and ultrafast carrier dynamics of the silicene-silver interface. Physical Review B, 2015, 92, .	1.1	37
25	Silicene field-effect transistors operating at room temperature. Nature Nanotechnology, 2015, 10, 227-231.	15.6	1,429
26	Nucleation and temperature-driven phase transitions of silicene superstructures on Ag(1â€‰1â€‰1). Journal of Physics Condensed Matter, 2015, 27, 255005.	0.7	23
27	Ultrafast Dynamics in Epitaxial Silicene on Ag(111). Springer Proceedings in Physics, 2015, , 329-332.	0.1	2
28	Ultrafast dynamics in epitaxial silicene on Ag(111). , 2014, , .		0
29	Engineering the electronic properties of silicene by tuning the composition of MoX ₂ and GaX (X = S,Se,Te) chalchogenide templates. 2D Materials, 2014, 1, 011010.	2.0	53
30	Twoâ€Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS₂ Surface. Advanced Materials, 2014, 26, 2096-2101.	11.1	311
31	Oxidation of carbynes: Signatures in infrared spectra. Journal of Chemical Physics, 2014, 140, 244708.	1.2	5
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 sp²â€“sp³ Two-Dimensional Silicon Nanosheet. Journal of Physical Chemistry C, 2013, 117, 16719-16724.	1.5	163
36	Hindering the Oxidation of Silicene with Nonâ€Reactive Encapsulation. Advanced Functional Materials, 2013, 23, 4340-4344.	7.8	161

#	Article	IF	Citations
37	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. Physical Chemistry Chemical Physics, 2013, 15, 9384.	1.3	15
38	Ultrafast spectroscopy of dinaphthylpolyynes. , 2013, , .		0
39	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. ECS Transactions, 2013, 58, 217-227.	0.3	5
40	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. EPJ Web of Conferences, 2013, 41, 05026.	0.1	0
41	Vibrational characterization of dinaphthylpolyynes: A model system for the study of end-capped sp carbon chains. Journal of Chemical Physics, 2011, 135, 194501.	1.2	21
42	The Topological Background of Schwarzite Physics. Carbon Materials, 2011, , 217-247.	0.2	7
43	Vibrational properties of sp carbon atomic wires in clusterâ€assembled carbon films. Physica Status Solidi (B): Basic Research, 2010, 247, 2017-2021.	0.7	10
44	Synthesis, Characterization, and Modeling of Naphthyl-Terminated sp Carbon Chains: Dinaphthylpolyynes. Journal of Physical Chemistry B, 2010, 114, 14834-14841.	1.2	45
45	Effect of Axial Torsion on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>s</mml:mi><mml:mi>p</mml:mi></mml:math>Carbon Atomic Wires. Physical Review Letters, 2009, 102, 245502.	2.9	99