

# Eugenio Luigi Cinquanta

## List of Publications by Year in descending order

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45  
papers

3,200  
citations

304368

22  
h-index

329751

37  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicene field-effect transistors operating at room temperature. <i>Nature Nanotechnology</i> , 2015, 10, 227-231.	15.6	1,429
2	Two-Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS <sub>2</sub> Surface. <i>Advanced Materials</i> , 2014, 26, 2096-2101.	11.1	311
3	Getting through the Nature of Silicene: An sp <sup>2</sup> vs sp <sup>3</sup> Two-Dimensional Silicon Nanosheet. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16719-16724.	1.5	163
4	Hindering the Oxidation of Silicene with Non-Reactive Encapsulation. <i>Advanced Functional Materials</i> , 2013, 23, 4340-4344.	7.8	161
5	Two-dimensional silicon: the advent of silicene. <i>2D Materials</i> , 2016, 3, 012001.	2.0	155
6	Effect of Axial Torsion on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">s \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Carbon Atomic Wires. <i>Physical Review Letters</i> , 2009, 102, 245502.	2.9	99
7	Ultrafast THz Probe of Photoinduced Polarons in Lead-Halide Perovskites. <i>Physical Review Letters</i> , 2019, 122, 166601.	2.9	98
8	Silicon Nanosheets: Crossover between Multilayer Silicene and Diamond-like Growth Regime. <i>ACS Nano</i> , 2017, 11, 3376-3382.	7.3	61
9	Novel near-infrared emission from crystal defects in MoS <sub>2</sub> multilayer flakes. <i>Nature Communications</i> , 2016, 7, 13044.	5.8	60
10	Towards a uniform and large-scale deposition of MoS <sub>2</sub> nanosheets via sulfurization of ultra-thin Mo-based solid films. <i>Nanotechnology</i> , 2016, 27, 175703.	1.3	59
11	Engineering the electronic properties of silicene by tuning the composition of MoX <sub>2</sub> and GaX (X = S, Se, Te) chalcogenide templates. <i>2D Materials</i> , 2014, 1, 011010.	2.0	53
12	Anisotropic MoS <sub>2</sub> Nanosheets Grown on Self-Organized Nanopatterned Substrates. <i>Advanced Materials</i> , 2017, 29, 1605785.	11.1	53
13	Vibrational properties of epitaxial silicene layers on (111) Ag. <i>Applied Surface Science</i> , 2014, 291, 113-117.	3.1	49
14	Optical Parametric Amplification Techniques for the Generation of High-Energy Few-Optical-Cycles IR Pulses for Strong Field Applications. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 265.	1.3	47
15	Synthesis, Characterization, and Modeling of Naphthyl-Terminated sp Carbon Chains: Dinaphthylpolyynes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14834-14841.	1.2	45
16	Engineering the Growth of MoS <sub>2</sub> via Atomic Layer Deposition of Molybdenum Oxide Film Precursor. <i>Advanced Electronic Materials</i> , 2016, 2, 1600330.	2.6	41
17	Optical response and ultrafast carrier dynamics of the silicene-silver interface. <i>Physical Review B</i> , 2015, 92, .	1.1	37
18	Exploring the morphological and electronic properties of silicene superstructures. <i>Applied Surface Science</i> , 2014, 291, 109-112.	3.1	34

#	ARTICLE	IF	CITATIONS
19	Electron Confinement at the Si/MoS <sub>2</sub> Heterosheet Interface. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500619.	1.9	28
20	Stability and universal encapsulation of epitaxial Xenex. <i>Faraday Discussions</i> , 2021, 227, 171-183.	1.6	24
21	Theoretical aspects of graphene-like group IV semiconductors. <i>Applied Surface Science</i> , 2014, 291, 98-103.	3.1	23
22	Nucleation and temperature-driven phase transitions of silicene superstructures on Ag(111). <i>Journal of Physics Condensed Matter</i> , 2015, 27, 255005.	0.7	23
23	Vibrational characterization of dinaphthylpolyynes: A model system for the study of end-capped <i>sp</i> carbon chains. <i>Journal of Chemical Physics</i> , 2011, 135, 194501.	1.2	21
24	Structural, optical and compositional stability of MoS <sub>2</sub> multi-layer flakes under high dose electron beam irradiation. <i>2D Materials</i> , 2016, 3, 025024.	2.0	19
25	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS <sub>2</sub> Sheets. <i>ACS Photonics</i> , 2018, 5, 3363-3371.	3.2	17
26	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9384.	1.3	15
27	Evidence of Native Cs Impurities and Metal-Insulator Transition in MoS <sub>2</sub> Natural Crystals. <i>Advanced Electronic Materials</i> , 2016, 2, 1600091.	2.6	12
28	Ultrafast charge carrier dynamics in quantum confined 2D perovskite. <i>Journal of Chemical Physics</i> , 2020, 152, 214705.	1.2	12
29	Vibrational properties of <i>sp</i> carbon atomic wires in cluster-assembled carbon films. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2017-2021.	0.7	10
30	Influence of Surface Chemistry on Water Absorption in Functionalized Germanane. <i>Chemistry of Materials</i> , 2020, 32, 1537-1544.	3.2	8
31	The Topological Background of Schwarzite Physics. <i>Carbon Materials</i> , 2011, , 217-247.	0.2	7
32	Anisotropic Complex Refractive Indices of Atomically Thin Materials: Determination of the Optical Constants of Few-Layer Black Phosphorus. <i>Materials</i> , 2020, 13, 5736.	1.3	6
33	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. <i>ECS Transactions</i> , 2013, 58, 217-227.	0.3	5
34	Oxidation of carbynes: Signatures in infrared spectra. <i>Journal of Chemical Physics</i> , 2014, 140, 244708.	1.2	5
35	Ultrafast carrier dynamics of epitaxial silicene. , 2017, , .		3
36	Dynamics of Two Distinct Exciton Populations in Methyl-Functionalized Germanane. <i>Nano Letters</i> , 2022, 22, 1183-1189.	4.5	3

#	ARTICLE	IF	CITATIONS
37	Ultrafast Dynamics in Epitaxial Silicene on Ag(111). Springer Proceedings in Physics, 2015, , 329-332.	0.1	2
38	Encapsulated Silicene Field-Effect Transistors. Nanoscience and Technology, 2018, , 235-254.	1.5	1
39	(INVITED) Emerging routes to light-matter interaction in two-dimensional materials. Optical Materials: X, 2021, 12, 100088.	0.3	1
40	Ultrafast spectroscopy of dinaphthylpolyynes. , 2013, , .		0
41	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. EPJ Web of Conferences, 2013, 41, 05026.	0.1	0
42	Ultrafast dynamics in epitaxial silicene on Ag(111). , 2014, , .		0
43	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
44	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
45	Time-domain spectroscopy of methane excited by resonant high-energy mid-IR pulses. JPhys Photonics, 2021, 3, 034020.	2.2	0