## Emilio Scalise

List of Publications by Year in descending order

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471509 315739 2,414 39 17 38 citations h-index g-index papers 40 40 40 3161 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Strain-induced semiconductor to metal transition in the two-dimensional honeycomb structure of MoS2. Nano Research, 2012, 5, 43-48.	10.4	620
2	Electronic properties of hydrogenated silicene and germanene. Applied Physics Letters, 2011, 98, .	3.3	399
3	Twoâ€Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS <sub>2</sub> Surface. Advanced Materials, 2014, 26, 2096-2101.	21.0	311
4	Getting through the Nature of Silicene: An sp <sup>2</sup> â€"sp <sup>3</sup> Two-Dimensional Silicon Nanosheet. Journal of Physical Chemistry C, 2013, 117, 16719-16724.	3.1	163
5	Vibrational properties of silicene and germanene. Nano Research, 2013, 6, 19-28.	10.4	144
6	First-principles study of strained 2D MoS2. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 416-421.	2.7	119
7	Two-dimensional hexagonal tin: <i>ab initio</i> geometry, stability, electronic structure and functionalization. 2D Materials, 2014, 1, 021004.	4.4	107
8	An electric field tunable energy band gap at silicene/(0001) ZnS interfaces. Physical Chemistry Chemical Physics, 2013, 15, 3702.	2.8	86
9	First-principles electronic functionalization of silicene and germanene by adatom chemisorption. Applied Surface Science, 2014, 291, 104-108.	6.1	69
10	Engineering the electronic properties of silicene by tuning the composition of MoX $<$ sub $>$ 2 $<$ /sub $>$ and GaX (X = S,Se,Te) chalchogenide templates. 2D Materials, 2014, 1, 011010.	4.4	53
11	Vibrational properties of epitaxial silicene layers on (111) Ag. Applied Surface Science, 2014, 291, 113-117.	6.1	49
12	New Approaches and Understandings in the Growth of Cubic Silicon Carbide. Materials, 2021, 14, 5348.	2.9	34
13	Temperature-Dependent Stability of Polytypes and Stacking Faults in <mml:math display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mirow><mml:mi>Si</mml:mi><mml:mi and="" experiments.<="" mathorization="" td="" theory=""><td>3.8</td><td>33</td></mml:mi></mml:mirow></mml:math>	3.8	33
14	Silicene on non-metallic substrates: Recent theoretical and experimental advances. Nano Research, 2018, 11, 1169-1182.	10.4	31
15	Surface chemistry and buried interfaces in all-inorganic nanocrystalline solids. Nature Nanotechnology, 2018, 13, 841-848.	31.5	30
16	Stability and universal encapsulation of epitaxial Xenes. Faraday Discussions, 2021, 227, 171-183.	3.2	24
17	Theoretical aspects of graphene-like group IV semiconductors. Applied Surface Science, 2014, 291, 98-103.	6.1	23
18	Kinetic Control of Morphology and Composition in Ge/GeSn Core/Shell Nanowires. ACS Nano, 2020, 14, 2445-2455.	14.6	17

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19	Molecular dynamics simulations of extended defects and their evolution in 3C–SiC by different potentials. Modelling and Simulation in Materials Science and Engineering, 2020, 28, 015002.	2.0	15
20	The origin and nature of killer defects in 3C-SiC for power electronic applications by a multiscale atomistic approach. Journal of Materials Chemistry C, 2020, 8, 8380-8392.	5.5	15
21	Predicting 2D silicon allotropes on SnS2. Nano Research, 2017, 10, 1697-1709.	10.4	10
22	(Invited) Theoretical Study of Silicene and Germanene. ECS Transactions, 2013, 53, 51-62.	0.5	9
23	Unveiling Planar Defects in Hexagonal Group IV Materials. Nano Letters, 2021, 21, 3619-3625.	9.1	8
24	Exciton-driven change of phonon modes causes strong temperature dependent bandgap shift in nanoclusters. Nature Communications, 2020, 11, 4127.	12.8	7
25	Structural and vibrational properties of amorphous GeO2 from first-principles. Applied Physics Letters, 2011, 98, .	3.3	6
26	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. ECS Transactions, 2013, 58, 217-227.	0.5	5
27	Interaction of silicene and germanene with non-metallic substrates. Journal of Physics: Conference Series, 2015, 574, 012015.	0.4	5
28	Tailoring the electronic properties of semiconducting nanocrystal-solids. Semiconductor Science and Technology, 2020, 35, 013001.	2.0	5
29	Vibrational Properties of Defective Oxides and 2D Nanolattices. Springer Theses, 2014, , .	0.1	3
30	Thermodynamic driving force in the formation of hexagonal-diamond Si and Ge nanowires. Applied Surface Science, 2021, 545, 148948.	6.1	3
31	The formation of a Sn monolayer on Ge(1 0 0) studied at the atomic scale. Applied Surface Science, $2021, 561, 149961.$	6.1	3
32	Theoretical Study of Ge Dangling Bonds in GeO $<$ sub $>$ 2 $<$ /sub $>$ and Correlation with ESR Results at Ge/GeO $<$ sub $>$ 2 $<$ /sub $>$ Interfaces. ECS Transactions, 2011, 41, 39-45.	0.5	1
33	Interaction of Germanene with (0001)ZnSe Surfaces: A Theoretical Study. ECS Transactions, 2013, 58, 209-215.	0.5	1
34	(Invited) Interaction of Silicene and Germanene with Non-Metallic Substrates. ECS Transactions, 2014, 64, 111-119.	0.5	1
35	Prismatic Ge-rich inclusions in the hexagonal SiGe shell of GaP–Si–SiGe nanowires by controlled faceting. Nanoscale, 2021, 13, 9436-9445.	5.6	1
36	New insights into the electronic states of the Ge(0 0 1) surface by joint angle-resolved photoelectron spectroscopy and first-principle calculation investigation. Applied Surface Science, 2022, 571, 151264.	6.1	1

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#	Article	IF	CITATIONS
37	Evolution and Intersection of Extended Defects and Stacking Faults in 3Câ€SiC Layers on Si (001) Substrates by Molecular Dynamics Simulations: The Forest Dislocation Case. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	1
38	Impact of inversion domain boundaries on the electronic properties of 3Câ€siC. Physica Status Solidi (B): Basic Research, 0, , .	1.5	1
39	Inelastic electron tunneling spectroscopy of HfO2 gate stacks: A study based on first-principles modeling. Applied Physics Letters, 2011, 99, 132101.	3.3	0