Alessandro Surrente

List of Publications by Year
in descending order

44 papers	1,791 citations	279798 23 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	3759 citing authors

#	Article	IF	Citations
1	Vibrational Properties in Highly Strained Hexagonal Boron Nitride Bubbles. Nano Letters, 2022, 22, 1525-1533.	9.1	30
2	Two Dimensional Perovskites/Transition Metal Dichalcogenides Heterostructures: Puzzles and Challenges. Israel Journal of Chemistry, 2022, 62, .	2.3	4
3	Interlayer excitons in MoSe₂/2D perovskite hybrid heterostructures â€“ the interplay between charge and energy transfer. Nanoscale, 2022, 14, 8085-8095.	5.6	11
4	Quantification of Exciton Fine Structure Splitting in a Two-Dimensional Perovskite Compound. Journal of Physical Chemistry Letters, 2022, 13, 4463-4469.	4.6	20
5	Strain induced lifting of the charged exciton degeneracy in monolayer MoS₂ on a GaAs nanomembrane. 2D Materials, 2022, 9, 045006.	4.4	4
6	Perspective on the physics of two-dimensional perovskites in high magnetic field. Applied Physics Letters, 2021, 118, .	3.3	18
7	Revealing Excitonic Phonon Coupling in (PEA)₂(MA)_{nâ^'1}Pb_nI_{3n+1} 2D Layered Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 5830-5835.	4.6	47
8	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer MoirÃ©. Nano Letters, 2020, 20, 1141-1147.	9.1	25
9	Influence of oversized cations on electronic dimensionality of d-MAPbI₃ crystals. Journal of Materials Chemistry C, 2020, 8, 7928-7934.	5.5	1
10	Phase-Transition-Induced Carrier Mass Enhancement in 2D Ruddlesdenâ€“Popper Perovskites. ACS Energy Letters, 2019, 4, 2386-2392.	17.4	38
11	Giant Fine Structure Splitting of the Bright Exciton in a Bulk MAPbBr₃ Single Crystal. Nano Letters, 2019, 19, 7054-7061.	9.1	41
12	Excitonic Properties of Low-Band-Gap Leadâ€“Tin Halide Perovskites. ACS Energy Letters, 2019, 4, 615-621.	17.4	51
13	Revealing the nature of photoluminescence emission in the metal-halide double perovskite Cs₂AgBiBr₆. Journal of Materials Chemistry C, 2019, 7, 8350-8356.	5.5	149
14	Non equilibrium anisotropic excitons in atomically thin ReS ₂. 2D Materials, 2019, 6, 015012.	4.4	23
15	Site-selective measurement of coupled spin pairs in an organic semiconductor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5077-5082.	7.1	39
16	MoirÃ© Intralayer Excitons in a MoSe₂/MoS₂ Heterostructure. Nano Letters, 2018, 18, 7651-7657.	9.1	113
17	Intervalley Scattering of Interlayer Excitons in a MoS₂/MoSe₂/MoS₂ Heterostructure in High Magnetic Field. Nano Letters, 2018, 18, 3994-4000.	9.1	27
18	Static and Dynamic Disorder in Triple-Cation Hybrid Perovskites. Journal of Physical Chemistry C, 2018, 122, 17473-17480.	3.1	21

#	Article	IF	Citations
19	Impact of photodoping on inter- and intralayer exciton emission in a MoS2/MoSe2/MoS2 heterostructure. Applied Physics Letters, 2018, 113, 062107.	3.3	12
20	Dark excitons and the elusive valley polarization in transition metal dichalcogenides. 2D Materials, 2017, 4, 025016.	4.4	71
21	Spatially resolved studies of the phases and morphology of methylammonium and formamidinium lead tri-halide perovskites. Nanoscale, 2017, 9, 3222-3230.	5.6	44
22	Unraveling the Exciton Binding Energy and the Dielectric Constant in Single-Crystal Methylammonium Lead Triiodide Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 1851-1855.	4.6	152
23	Impact of microstructure on the electronâ€“hole interaction in lead halide perovskites. Energy and Environmental Science, 2017, 10, 1358-1366.	30.8	36
24	Revealing Large-Scale Homogeneity and Trace Impurity Sensitivity of GaAs Nanoscale Membranes. Nano Letters, 2017, 17, 2979-2984.	9.1	18
25	Highly Oriented Atomically Thin Ambipolar MoSe₂ Grown by Molecular Beam Epitaxy. ACS Nano, 2017, 11, 6355-6361.	14.6	64
26	Defect Healing and Charge Transfer-Mediated Valley Polarization in MoS₂/MoSe₂/MoS₂ Trilayer van der Waals Heterostructures. Nano Letters, 2017, 17, 4130-4136.	9.1	56
27	Impact of the Halide Cage on the Electronic Properties of Fully Inorganic Cesium Lead Halide Perovskites. ACS Energy Letters, 2017, 2, 1621-1627.	17.4	215
28	Probing the Interlayer Exciton Physics in a MoS₂/MoSe₂/MoS₂ van der Waals Heterostructure. Nano Letters, 2017, 17, 6360-6365.	9.1	118
29	Ultrahigh magnetic field spectroscopy reveals the band structure of the three-dimensional topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2017, 96, .	3.2	5
30	Observation of A1g Raman mode splitting in few layer black phosphorus encapsulated with hexagonal boron nitride. Nanoscale, 2017, 9, 19298-19303.	5.6	9
31	Dense arrays of site-controlled quantum dots with tailored emission wavelength: Growth mechanisms and optical properties. Applied Physics Letters, 2017, 111, .	3.3	10
32	External Control of Dissipative Coupling in a Heterogeneously Integrated Photonic Crystalâ€”SOI Waveguide Optomechanical System. Photonics, 2016, 3, 52.	2.0	0
33	Onset of exciton-exciton annihilation in single-layer black phosphorus. Physical Review B, 2016, 94, .	3.2	45
34	Self-formation of hexagonal nanotemplates for growth of pyramidal quantum dots by metalorganic vapor phase epitaxy on patterned substrates. Nano Research, 2016, 9, 3279-3290.	10.4	11
35	Excitons in atomically thin black phosphorus. Physical Review B, 2016, 93, .	3.2	83
36	Magnetoexcitons in large area CVD-grown monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub></m sapphire. Physical Review B, 2016, 93, .	3.2	66

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37	Integrated III-V Photonic Crystal â€“ Si waveguide platform with tailored optomechanical coupling. Scientific Reports, 2015, 5, 16526.	3.3	19
38	Polarization properties and disorder effects in H3 photonic crystal cavities incorporating site-controlled, high-symmetry quantum dot arrays. Applied Physics Letters, 2015, 107, 031106.	3.3	5
39	Ordered systems of site-controlled pyramidal quantum dots incorporated in photonic crystal cavities. Nanotechnology, 2011, 22, 465203.	2.6	19
40	Semianalytical approach to the design of photonic crystal cavities. Physical Review B, 2010, 82, .	3.2	17
41	Site-controlled quantum-wire and quantum-dot photonic-crystal microcavity lasers. , 2010, , .		0
42	High quality superconducting NbN thin films on GaAs. Superconductor Science and Technology, 2009, 22, 095013.	3.5	28
43	Dense arrays of ordered pyramidal quantum dots with narrow linewidth photoluminescence spectra. Nanotechnology, 2009, 20, 415205.	2.6	26
44	Dense (10¹⁰ cm^{−2}) arrays of ordered quantum dots with narrow (≪ 10 meV) photoluminescence spectra. , 2009, , .		0