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	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
2	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
3	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
4	Probing the Interlayer Exciton Physics in a MoS₂/MoSe₂/MoS₂ van der Waals Heterostructure. Nano Letters, 2017, 17, 6360-6365.	9.1	118
5	MoirÃ© Intralayer Excitons in a MoSe₂/MoS₂ Heterostructure. Nano Letters, 2018, 18, 7651-7657.	9.1	113
6	Excitons in atomically thin black phosphorus. Physical Review B, 2016, 93, .	3.2	83
7	Dark excitons and the elusive valley polarization in transition metal dichalcogenides. 2D Materials, 2017, 4, 025016.	4.4	71
8	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></mn 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
9	Highly Oriented Atomically Thin Ambipolar MoSe₂ Grown by Molecular Beam Epitaxy. ACS Nano, 2017, 11, 6355-6361.	14.6	64
10	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
11	Excitonic Properties of Low-Band-Gap Leadâ€“Tin Halide Perovskites. ACS Energy Letters, 2019, 4, 615-621.	17.4	51
12	Revealing Excitonic Phonon Coupling in (PEA)₂(MA)_{<i>n</i>â^'1}Pb_{<i>n</i>}I_{3<i>n</i>+1} 2D Layered Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 5830-5835.	4.6	47
13	Onset of exciton-exciton annihilation in single-layer black phosphorus. Physical Review B, 2016, 94, .	3.2	45
14	Spatially resolved studies of the phases and morphology of methylammonium and formamidinium lead tri-halide perovskites. Nanoscale, 2017, 9, 3222-3230.	5.6	44
15	Giant Fine Structure Splitting of the Bright Exciton in a Bulk MAPbBr₃ Single Crystal. Nano Letters, 2019, 19, 7054-7061.	9.1	41
16	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
17	Phase-Transition-Induced Carrier Mass Enhancement in 2D Ruddlesdenâ€“Popper Perovskites. ACS Energy Letters, 2019, 4, 2386-2392.	17.4	38
18	Impact of microstructure on the electronâ€“hole interaction in lead halide perovskites. Energy and Environmental Science, 2017, 10, 1358-1366.	30.8	36

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19	Vibrational Properties in Highly Strained Hexagonal Boron Nitride Bubbles. Nano Letters, 2022, 22, 1525-1533.	9.1	30
20	High quality superconducting NbN thin films on GaAs. Superconductor Science and Technology, 2009, 22, 095013.	3.5	28
21	Intervalley Scattering of Interlayer Excitons in a MoS₂/MoSe₂/MoS₂ Heterostructure in High Magnetic Field. Nano Letters, 2018, 18, 3994-4000.	9.1	27
22	Dense arrays of ordered pyramidal quantum dots with narrow linewidth photoluminescence spectra. Nanotechnology, 2009, 20, 415205.	2.6	26
23	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer MoirÃ©. Nano Letters, 2020, 20, 1141-1147.	9.1	25
24	Non equilibrium anisotropic excitons in atomically thin ReS ₂. 2D Materials, 2019, 6, 015012.	4.4	23
25	Static and Dynamic Disorder in Triple-Cation Hybrid Perovskites. Journal of Physical Chemistry C, 2018, 122, 17473-17480.	3.1	21
26	Quantification of Exciton Fine Structure Splitting in a Two-Dimensional Perovskite Compound. Journal of Physical Chemistry Letters, 2022, 13, 4463-4469.	4.6	20
27	Ordered systems of site-controlled pyramidal quantum dots incorporated in photonic crystal cavities. Nanotechnology, 2011, 22, 465203.	2.6	19
28	Integrated III-V Photonic Crystal â€" Si waveguide platform with tailored optomechanical coupling. Scientific Reports, 2015, 5, 16526.	3.3	19
29	Revealing Large-Scale Homogeneity and Trace Impurity Sensitivity of GaAs Nanoscale Membranes. Nano Letters, 2017, 17, 2979-2984.	9.1	18
30	Perspective on the physics of two-dimensional perovskites in high magnetic field. Applied Physics Letters, 2021, 118, .	3.3	18
31	Semianalytical approach to the design of photonic crystal cavities. Physical Review B, 2010, 82, .	3.2	17
32	Impact of photodoping on inter- and intralayer exciton emission in a MoS2/MoSe2/MoS2 heterostructure. Applied Physics Letters, 2018, 113, 062107.	3.3	12
33	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
34	Interlayer excitons in MoSe₂/2D perovskite hybrid heterostructures â€" the interplay between charge and energy transfer. Nanoscale, 2022, 14, 8085-8095.	5.6	11
35	Dense arrays of site-controlled quantum dots with tailored emission wavelength: Growth mechanisms and optical properties. Applied Physics Letters, 2017, 111, .	3.3	10
36	Observation of A1g Raman mode splitting in few layer black phosphorus encapsulated with hexagonal boron nitride. Nanoscale, 2017, 9, 19298-19303.	5.6	9

#	ARTICLE	IF	CITATIONS
37	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
38	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></mml:m Physical Review B, 2017, 96, .	3.2	5
39	Two Dimensional Perovskites/Transition Metal Dichalcogenides Heterostructures: Puzzles and Challenges. Israel Journal of Chemistry, 2022, 62, .	2.3	4
40	Strain induced lifting of the charged exciton degeneracy in monolayer MoS₂ on a GaAs nanomembrane. 2D Materials, 2022, 9, 045006.	4.4	4
41	Influence of oversized cations on electronic dimensionality of d-MAPbI₃ crystals. Journal of Materials Chemistry C, 2020, 8, 7928-7934.	5.5	1
42	Dense (10¹⁰ cm^{−2}) arrays of ordered quantum dots with narrow (≪ 10 meV) photoluminescence spectra. , 2009, , .		0
43	Site-controlled quantum-wire and quantum-dot photonic-crystal microcavity lasers. , 2010, , .		0
44	External Control of Dissipative Coupling in a Heterogeneously Integrated Photonic Crystalâ€"SOI Waveguide Optomechanical System. Photonics, 2016, 3, 52.	2.0	0