Elton Jâ€g Santos

List of Publications by Year
in descending order

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		87888	98798
69	6,447	38	67
papers	citations	h-index	g-index

73	73	73	10799
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. Nature Communications, 2017, 8, 15815.	12.8	576
2	Graphene/MoS₂ Hybrid Technology for Large-Scale Two-Dimensional Electronics. Nano Letters, 2014, 14, 3055-3063.	9.1	554
3	Production of Highly Monolayer Enriched Dispersions of Liquid-Exfoliated Nanosheets by Liquid Cascade Centrifugation. ACS Nano, 2016, 10, 1589-1601.	14.6	365
4	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. Science Advances, 2019, 5, eaav0129.	10.3	308
5	Efficient Blue Electroluminescence Using Quantum-Confined Two-Dimensional Perovskites. ACS Nano, 2016, 10, 9720-9729.	14.6	299
6	Ultrahigh-current-density niobium disulfide catalysts for hydrogen evolution. Nature Materials, 2019, 18, 1309-1314.	27.5	280
7	Tuning the Electronic and Chemical Properties of Monolayer MoS₂ Adsorbed on Transition Metal Substrates. Nano Letters, 2013, 13, 509-514.	9.1	262
8	High-Performance WSe₂ Complementary Metal Oxide Semiconductor Technology and Integrated Circuits. Nano Letters, 2015, 15, 4928-4934.	9.1	204
9	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. ACS Nano, 2018, 12, 10463-10472.	14.6	203
10	Few-layer, large-area, 2D covalent organic framework semiconductor thin films. Chemical Communications, 2015, 51, 13894-13897.	4.1	201
11	Electric-Field Dependence of the Effective Dielectric Constant in Graphene. Nano Letters, 2013, 13, 898-902.	9.1	181
12	Electrically Driven Tuning of the Dielectric Constant in MoS₂ Layers. ACS Nano, 2013, 7, 10741-10746.	14.6	179
13	Magnetism of substitutional Co impurities in graphene: Realization of single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math>vacancies. Physical Review B, 2010, 81, .	3.2	178
14	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. Nano Letters, 2019, 19, 4371-4379.	9.1	161
15	Structural and Electrical Investigation of C₆₀â€“Graphene Vertical Heterostructures. ACS Nano, 2015, 9, 5922-5928.	14.6	151
16	The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079.	14.6	149
17	Raman signature and phonon dispersion of atomically thin boron nitride. Nanoscale, 2017, 9, 3059-3067.	5.6	141
18	Dielectric Screening in Atomically Thin Boron Nitride Nanosheets. Nano Letters, 2015, 15, 218-223.	9.1	129

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19	Epitaxial Growth of Molecular Crystals on van der Waals Substrates for Highâ€Performance Organic Electronics. Advanced Materials, 2014, 26, 2812-2817.	21.0	120
20	Direct Covalent Chemical Functionalization of Unmodified Two-Dimensional Molybdenum Disulfide. Chemistry of Materials, 2018, 30, 2112-2128.	6.7	93
21	Universal magnetic properties of sp³-type defects in covalently functionalized graphene. New Journal of Physics, 2012, 14, 043022.	2.9	87
22	Switching on magnetism in Ni-doped graphene: Density functional calculations. Physical Review B, 2008, 78, .	3.2	83
23	Biquadratic exchange interactions in two-dimensional magnets. Npj Computational Materials, 2020, 6, .	8.7	83
24	Raman Spectra in Vanadate Nanotubes Revisited. Nano Letters, 2004, 4, 2099-2104.	9.1	81
25	Direct Observation of a Long-Lived Single-Atom Catalyst Chiseling Atomic Structures in Graphene. Nano Letters, 2014, 14, 450-455.	9.1	81
26	A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035.	14.6	74
27	Electronic Polarizability as the Fundamental Variable in the Dielectric Properties of Two-Dimensional Materials. Nano Letters, 2020, 20, 841-851.	9.1	70
28	Aggregation-induced emission in lamellar solids of colloidal perovskite quantum wells. Science Advances, 2017, 3, eaaq0208.	10.3	65
29	Spectroscopic Size and Thickness Metrics for Liquid-Exfoliated h-BN. Chemistry of Materials, 2018, 30, 1998-2005.	6.7	65
30	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS₂, WSe₂, and WTe₂. ACS Nano, 2021, 15, 2600-2610.	14.6	65
31	Molecular Arrangement and Charge Transfer in C₆₀/Graphene Heterostructures. ACS Nano, 2017, 11, 4686-4693.	14.6	60
32	Length- and Thickness-Dependent Optical Response of Liquid-Exfoliated Transition Metal Dichalcogenides. Chemistry of Materials, 2019, 31, 10049-10062.	6.7	57
33	Properties and dynamics of meron topological spin textures in the two-dimensional magnet CrCl3. Nature Communications, 2021, 12, 185.	12.8	57
34	Epitaxially Grown Strained Pentacene Thin Film on Graphene Membrane. Small, 2015, 11, 2037-2043.	10.0	53
35	Chemical Vapor-Deposited Hexagonal Boron Nitride as a Scalable Template for High-Performance Organic Field-Effect Transistors. Chemistry of Materials, 2017, 29, 2341-2347.	6.7	52
36	Outstanding Thermal Conductivity of Single Atomic Layer Isotope-Modified Boron Nitride. Physical Review Letters, 2020, 125, 085902.	7.8	51

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37	Atomic-scale imaging of few-layer black phosphorus and its reconstructed edge. Journal Physics D: Applied Physics, 2017, 50, 084003.	2.8	42
38	Ab initio study of 2,3,7,8-tetrachlorinated dibenzo-p-dioxin adsorption on single wall carbon nanotubes. Chemical Physics Letters, 2007, 437, 79-82.	2.6	41
39	Magnetism of Single Vacancies in Rippled Graphene. Journal of Physical Chemistry C, 2012, 116, 7602-7606.	3.1	41
40	Asymmetric electric field screening in van der Waals heterostructures. Nature Communications, 2018, 9, 1271.	12.8	38
41	Magnetic Field Effect on Topological Spin Excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CrI</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review X, 2021, 11, .	8.9	37
42	Strain-Tunable Spin Moment in Ni-Doped Graphene. Journal of Physical Chemistry C, 2012, 116, 1174-1178.	3.1	36
43	Quantum Rescaling, Domain Metastability, and Hybrid Domainâ€Walls in 2D CrI₃ Magnets. Advanced Materials, 2021, 33, e2004138.	21.0	34
44	Exfoliation of Quasi-Two-Dimensional Nanosheets of Metal Diborides. Journal of Physical Chemistry C, 2021, 125, 6787-6799.	3.1	32
45	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. Nano Letters, 2021, 21, 3379-3385.	9.1	31
46	Scalable photonic sources using two-dimensional lead halide perovskite superlattices. Nature Communications, 2020, 11, 387.	12.8	29
47	Multiscale Analysis for Field-Effect Penetration through Two-Dimensional Materials. Nano Letters, 2016, 16, 5044-5052.	9.1	28
48	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. ACS Applied Materials & Interfaces, 2020, 12, 19866-19873.	8.0	27
49	Rotational superstructure in van der Waals heterostructure of self-assembled C₆₀ monolayer on the WSe₂ surface. Nanoscale, 2017, 9, 13245-13256.	5.6	23
50	Coexistence of structural and magnetic phases in van der Waals magnet CrI3. Nature Communications, 2021, 12, 6265.	12.8	22
51	Design and Synthesis of Heteroleptic Iridium(III) Phosphors for Efficient Organic Light-Emitting Devices. Inorganic Chemistry, 2017, 56, 15304-15313.	4.0	20
52	Relativistic domain-wall dynamics in van der Waals antiferromagnet MnPS3. Npj Computational Materials, 2022, 8, .	8.7	18
53	Domain wall dynamics in two-dimensional van der Waals ferromagnets. Applied Physics Reviews, 2021, 8, .	11.3	16
54	Magnetic field-induced non-trivial electronic topology in Fe3â€™xGeTe2. Applied Physics Reviews, 2021, 8, .	11.3	14

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55	Electrical Spin Switch in Hydrogenated Multilayer Graphene. Journal of Physical Chemistry C, 2013, 117, 6420-6425.	3.1	12
56	Carrier-Mediated Magnetoelectric Coupling in Functionalized Graphene. ACS Nano, 2013, 7, 9927-9932.	14.6	10
57	Doping-Driven Wettability of Two-Dimensional Materials: A Multiscale Theory. Langmuir, 2017, 33, 12827-12837.	3.5	10
58	Intrinsic Controllable Magnetism of Graphene Grown on Fe. Journal of Physical Chemistry C, 2019, 123, 26870-26876.	3.1	10
59	Magnetism of covalently functionalized carbon nanotubes. Applied Physics Letters, 2011, 99, .	3.3	9
60	Ultrafast charge-transfer in organic photovoltaic interfaces: geometrical and functionalization effects. Nanoscale, 2016, 8, 15902-15910.	5.6	9
61	Phase transition and electronic structure evolution of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub><m induced by W substitution. Physical Review B, 2018, 98, .	3.2	9
62	Magnetoelectric effect in functionalized few-layer graphene. Physical Review B, 2013, 87, .	3.2	8
63	Toward Controlled Growth of Helicity-Specific Carbon Nanotubes. Journal of Physical Chemistry Letters, 2015, 6, 2232-2237.	4.6	7
64	Screened Hybrid Exact Exchange Correction Scheme for Adsorption Energies on Perovskite Oxides. Journal of Physical Chemistry C, 2015, 119, 17662-17666.	3.1	7
65	Isotope effect on the thermal expansion coefficient of atomically thin boron nitride. 2D Materials, 2021, 8, 034006.	4.4	5
66	Electric Field Effects on Graphene Materials. Carbon Materials, 2015, , 383-391.	1.2	2
67	First-Principles Study of the Electronic and Magnetic Properties of Defects in Carbon Nanostructures. Carbon Materials, 2013, , 41-76.	1.2	1
68	Exfoliation of Centimetre-Sized Transition Metal Dichalcogenide Monolayers. , 2019, , .		0
69	Nanomagnets: Quantum Rescaling, Domain Metastability, and Hybrid Domainâ€Walls in 2D CrI₃ Magnets (Adv. Mater. 5/2021). Advanced Materials, 2021, 33, 2170036.	21.0	0