Elton Jâ€g Santos

List of Publications by Year
in descending order

69	6,447	87888 38	98798 67
papers	citations	h-index	g-index
73	73	73	10799
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Relativistic domain-wall dynamics in van der Waals antiferromagnet MnPS3. Npj Computational Materials, 2022, 8, .	8.7	18
2	A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035.	14.6	74
3	The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079.	14.6	149
4	Quantum Rescaling, Domain Metastability, and Hybrid Domainâ€Walls in 2D CrI₃ Magnets. Advanced Materials, 2021, 33, e2004138.	21.0	34
5	Properties and dynamics of meron topological spin textures in the two-dimensional magnet CrCl3. Nature Communications, 2021, 12, 185.	12.8	57
6	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS₂, WSe₂, and WTe₂. ACS Nano, 2021, 15, 2600-2610.	14.6	65
7	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
8	Exfoliation of Quasi-Two-Dimensional Nanosheets of Metal Diborides. Journal of Physical Chemistry C, 2021, 125, 6787-6799.	3.1	32
9	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. Nano Letters, 2021, 21, 3379-3385.	9.1	31
10	Isotope effect on the thermal expansion coefficient of atomically thin boron nitride. 2D Materials, 2021, 8, 034006.	4.4	5
11	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></m Physical Review X, 2021, 11, .	8.9	37
12	Magnetic field-induced non-trivial electronic topology in Fe3â^’<i>x</i>GeTe2. Applied Physics Reviews, 2021, 8, .	11.3	14
13	Coexistence of structural and magnetic phases in van der Waals magnet CrI3. Nature Communications, 2021, 12, 6265.	12.8	22
14	Domain wall dynamics in two-dimensional van der Waals ferromagnets. Applied Physics Reviews, 2021, 8, .	11.3	16
15	Electronic Polarizability as the Fundamental Variable in the Dielectric Properties of Two-Dimensional Materials. Nano Letters, 2020, 20, 841-851.	9.1	70
16	Biquadratic exchange interactions in two-dimensional magnets. Npj Computational Materials, 2020, 6, .	8.7	83
17	Outstanding Thermal Conductivity of Single Atomic Layer Isotope-Modified Boron Nitride. Physical Review Letters, 2020, 125, 085902.	7.8	51
18	Strong Coupling of Carbon Quantum Dots in Plasmonic Nanocavities. ACS Applied Materials & Interfaces, 2020, 12, 19866-19873.	8.0	27

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19	Scalable photonic sources using two-dimensional lead halide perovskite superlattices. Nature Communications, 2020, 11, 387.	12.8	29
20	Exfoliation of Centimetre-Sized Transition Metal Dichalcogenide Monolayers. , 2019, , .		0
21	Intrinsic Controllable Magnetism of Graphene Grown on Fe. Journal of Physical Chemistry C, 2019, 123, 26870-26876.	3.1	10
22	Ultrahigh-current-density niobium disulfide catalysts for hydrogen evolution. Nature Materials, 2019, 18, 1309-1314.	27.5	280
23	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. Science Advances, 2019, 5, eaav0129.	10.3	308
24	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. Nano Letters, 2019, 19, 4371-4379.	9.1	161
25	Length- and Thickness-Dependent Optical Response of Liquid-Exfoliated Transition Metal Dichalcogenides. Chemistry of Materials, 2019, 31, 10049-10062.	6.7	57
26	Spectroscopic Size and Thickness Metrics for Liquid-Exfoliated <i>h</i>-BN. Chemistry of Materials, 2018, 30, 1998-2005.	6.7	65
27	Direct Covalent Chemical Functionalization of Unmodified Two-Dimensional Molybdenum Disulfide. Chemistry of Materials, 2018, 30, 2112-2128.	6.7	93
28	Asymmetric electric field screening in van der Waals heterostructures. Nature Communications, 2018, 9, 1271.	12.8	38
29	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. ACS Nano, 2018, 12, 10463-10472.	14.6	203
30	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
31	Atomic-scale imaging of few-layer black phosphorus and its reconstructed edge. Journal Physics D: Applied Physics, 2017, 50, 084003.	2.8	42
32	Raman signature and phonon dispersion of atomically thin boron nitride. Nanoscale, 2017, 9, 3059-3067.	5.6	141
33	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
34	Molecular Arrangement and Charge Transfer in C₆₀/Graphene Heterostructures. ACS Nano, 2017, 11, 4686-4693.	14.6	60
35	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. Nature Communications, 2017, 8, 15815.	12.8	576
36	Doping-Driven Wettability of Two-Dimensional Materials: A Multiscale Theory. Langmuir, 2017, 33, 12827-12837.	3.5	10

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37	Rotational superstructure in van der Waals heterostructure of self-assembled C₆₀ monolayer on the WSe₂ surface. Nanoscale, 2017, 9, 13245-13256.	5.6	23
38	Design and Synthesis of Heteroleptic Iridium(III) Phosphors for Efficient Organic Light-Emitting Devices. Inorganic Chemistry, 2017, 56, 15304-15313.	4.0	20
39	Aggregation-induced emission in lamellar solids of colloidal perovskite quantum wells. Science Advances, 2017, 3, eaaq0208.	10.3	65
40	Efficient Blue Electroluminescence Using Quantum-Confined Two-Dimensional Perovskites. ACS Nano, 2016, 10, 9720-9729.	14.6	299
41	Multiscale Analysis for Field-Effect Penetration through Two-Dimensional Materials. Nano Letters, 2016, 16, 5044-5052.	9.1	28
42	Ultrafast charge-transfer in organic photovoltaic interfaces: geometrical and functionalization effects. Nanoscale, 2016, 8, 15902-15910.	5.6	9
43	Production of Highly Monolayer Enriched Dispersions of Liquid-Exfoliated Nanosheets by Liquid Cascade Centrifugation. ACS Nano, 2016, 10, 1589-1601.	14.6	365
44	Structural and Electrical Investigation of C₆₀â€“Graphene Vertical Heterostructures. ACS Nano, 2015, 9, 5922-5928.	14.6	151
45	Toward Controlled Growth of Helicity-Specific Carbon Nanotubes. Journal of Physical Chemistry Letters, 2015, 6, 2232-2237.	4.6	7
46	Epitaxially Grown Strained Pentacene Thin Film on Graphene Membrane. Small, 2015, 11, 2037-2043.	10.0	53
47	High-Performance WSe₂ Complementary Metal Oxide Semiconductor Technology and Integrated Circuits. Nano Letters, 2015, 15, 4928-4934.	9.1	204
48	Screened Hybrid Exact Exchange Correction Scheme for Adsorption Energies on Perovskite Oxides. Journal of Physical Chemistry C, 2015, 119, 17662-17666.	3.1	7
49	Few-layer, large-area, 2D covalent organic framework semiconductor thin films. Chemical Communications, 2015, 51, 13894-13897.	4.1	201
50	Dielectric Screening in Atomically Thin Boron Nitride Nanosheets. Nano Letters, 2015, 15, 218-223.	9.1	129
51	Electric Field Effects on Graphene Materials. Carbon Materials, 2015, , 383-391.	1.2	2
52	Graphene/MoS₂ Hybrid Technology for Large-Scale Two-Dimensional Electronics. Nano Letters, 2014, 14, 3055-3063.	9.1	554
53	Epitaxial Growth of Molecular Crystals on van der Waals Substrates for Highâ€Performance Organic Electronics. Advanced Materials, 2014, 26, 2812-2817.	21.0	120
54	Direct Observation of a Long-Lived Single-Atom Catalyst Chiseling Atomic Structures in Graphene. Nano Letters, 2014, 14, 450-455.	9.1	81

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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	Electrically Driven Tuning of the Dielectric Constant in MoS₂ Layers. ACS Nano, 2013, 7, 10741-10746.	14.6	179
57	Carrier-Mediated Magnetoelectric Coupling in Functionalized Graphene. ACS Nano, 2013, 7, 9927-9932.	14.6	10
58	Magnetoelectric effect in functionalized few-layer graphene. Physical Review B, 2013, 87, .	3.2	8
59	Tuning the Electronic and Chemical Properties of Monolayer MoS₂ Adsorbed on Transition Metal Substrates. Nano Letters, 2013, 13, 509-514.	9.1	262
60	Electric-Field Dependence of the Effective Dielectric Constant in Graphene. Nano Letters, 2013, 13, 898-902.	9.1	181
61	First-Principles Study of the Electronic and Magnetic Properties of Defects in Carbon Nanostructures. Carbon Materials, 2013, , 41-76.	1.2	1
62	Universal magnetic properties of sp³-type defects in covalently functionalized graphene. New Journal of Physics, 2012, 14, 043022.	2.9	87
63	Strain-Tunable Spin Moment in Ni-Doped Graphene. Journal of Physical Chemistry C, 2012, 116, 1174-1178.	3.1	36
64	Magnetism of Single Vacancies in Rippled Graphene. Journal of Physical Chemistry C, 2012, 116, 7602-7606.	3.1	41
65	Magnetism of covalently functionalized carbon nanotubes. Applied Physics Letters, 2011, 99, .	3.3	9
66	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
67	Switching on magnetism in Ni-doped graphene: Density functional calculations. Physical Review B, 2008, 78, .	3.2	83
68	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
69	Raman Spectra in Vanadate Nanotubes Revisited. Nano Letters, 2004, 4, 2099-2104.	9.1	81