

Carlos Sánchez

List of Publications by Year in descending order

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23
papers

1,307
citations

516710

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642732

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docs citations

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times ranked

1428
citing authors

#	ARTICLE	IF	CITATIONS
1	TiS ₃ Transistors with Tailored Morphology and Electrical Properties. <i>Advanced Materials</i> , 2015, 27, 2595-2601.	21.0	193
2	Ultrahigh Photoresponse of Few-Layer TiS ₃ Nanoribbon Transistors. <i>Advanced Optical Materials</i> , 2014, 2, 641-645.	7.3	189
3	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. <i>2D Materials</i> , 2017, 4, 022003.	4.4	146
4	Titanium trisulfide (TiS ₃): a 2D semiconductor with quasi-1D optical and electronic properties. <i>Scientific Reports</i> , 2016, 6, 22214.	3.3	107
5	Temperature-Dependent Raman Spectroscopy of Titanium Trisulfide (TiS ₃) Nanoribbons and Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24185-24190.	8.0	89
6	Optical properties of titanium trisulphide (TiS ₃) thin films. <i>Thin Solid Films</i> , 2013, 535, 398-401.	1.8	85
7	Polarization-Sensitive and Broadband Photodetection Based on a Mixed-Dimensionality TiS ₃ /Si p-n Junction. <i>Advanced Optical Materials</i> , 2018, 6, 1800351.	7.3	64
8	Electronic Bandgap and Exciton Binding Energy of Layered Semiconductor TiS ₃ . <i>Advanced Electronic Materials</i> , 2015, 1, 1500126.	5.1	59
9	High Current Density Electrical Breakdown of TiS ₃ Nanoribbon-Based Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1605647.	14.9	52
10	On the Photoelectrochemical Properties of TiS ₃ Films. <i>Energy Procedia</i> , 2012, 22, 48-52.	1.8	47
11	Large birefringence and linear dichroism in TiS ₃ nanosheets. <i>Nanoscale</i> , 2018, 10, 12424-12429.	5.6	40
12	Titanium trisulphide (TiS ₃) nanoribbons for easy hydrogen photogeneration under visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7959-7965.	10.3	39
13	Hydrogen Photoassisted Generation by Visible Light and an Earth Abundant Photocatalyst: Pyrite (FeS ₂). <i>Journal of Physical Chemistry C</i> , 2016, 120, 9547-9552.	3.1	37
14	Strain-induced band gap engineering in layered TiS ₃ . <i>Nano Research</i> , 2018, 11, 225-232.	10.4	36
15	Dielectrophoretic assembly of liquid-phase-exfoliated TiS ₃ nanoribbons for photodetecting applications. <i>Chemical Communications</i> , 2017, 53, 6164-6167.	4.1	22
16	Chemical vapor deposition growth of boron-carbon-nitrogen layers from methylamine borane thermolysis products. <i>Nanotechnology</i> , 2018, 29, 025603.	2.6	21
17	Ultrathin Transparent B ⁺ C ⁻ N Layers Grown on Titanium Substrates with Excellent Electrocatalytic Activity for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 1922-1932.	5.1	16
18	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS ₃ Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. <i>ACS Applied Nano Materials</i> , 2020, 3, 8794-8802.	5.0	15

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19	Multi-terminal electronic transport in boron nitride encapsulated TiS ₃ nanosheets. 2D Materials, 2020, 7, 015009.	4.4	14
20	Tunable Photodetectors via In Situ Thermal Conversion of TiS ₃ to TiO ₂ . Nanomaterials, 2020, 10, 711.	4.1	14
21	Ternary transition titanium-niobium trisulfide as photoanode for assisted water splitting. Catalysis Today, 2019, 321-322, 107-112.	4.4	11
22	Improving the Efficiency of Thin Film Thermoelectric Generators under Constant Heat Flux by Using Substrates of Low Thermal Conductivity. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800277.	2.4	7
23	On the van der Pauw's method applied to the measurement of low thermal conductivity materials. Review of Scientific Instruments, 2016, 87, 084902.	1.3	4