Carlos SÃnchez

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2306475/publications.pdf

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23	1,307	516561 16	642610 23
papers	citations	h-index	g-index

23	23	23	1428
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	TiS₃ Transistors with Tailored Morphology and Electrical Properties. Advanced Materials, 2015, 27, 2595-2601.	11.1	193
2	Ultrahigh Photoresponse of Fewâ€Layer TiS₃ Nanoribbon Transistors. Advanced Optical Materials, 2014, 2, 641-645.	3.6	189
3	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. 2D Materials, 2017, 4, 022003.	2.0	146
4	Titanium trisulfide (TiS3): a 2D semiconductor with quasi-1D optical and electronic properties. Scientific Reports, 2016, 6, 22214.	1.6	107
5	Temperature-Dependent Raman Spectroscopy of Titanium Trisulfide (TiS₃) Nanoribbons and Nanosheets. ACS Applied Materials & Interfaces, 2015, 7, 24185-24190.	4.0	89
6	Optical properties of titanium trisulphide (TiS3) thin films. Thin Solid Films, 2013, 535, 398-401.	0.8	85
7	Polarizationâ€Sensitive and Broadband Photodetection Based on a Mixedâ€Dimensionality TiS₃/Si pâ€“n Junction. Advanced Optical Materials, 2018, 6, 1800351.	3.6	64
8	Electronic Bandgap and Exciton Binding Energy of Layered Semiconductor TiS₃. Advanced Electronic Materials, 2015, 1, 1500126.	2.6	59
9	High Current Density Electrical Breakdown of TiS₃ Nanoribbonâ€Based Fieldâ€Effect Transistors. Advanced Functional Materials, 2017, 27, 1605647.	7.8	52
10	On the Photoelectrochemical Properties of TiS3 Films. Energy Procedia, 2012, 22, 48-52.	1.8	47
11	Large birefringence and linear dichroism in TiS₃ nanosheets. Nanoscale, 2018, 10, 12424-12429.	2.8	40
12	Titanium trisulphide (TiS₃) nanoribbons for easy hydrogen photogeneration under visible light. Journal of Materials Chemistry A, 2015, 3, 7959-7965.	5.2	39
13	Hydrogen Photoassisted Generation by Visible Light and an Earth Abundant Photocatalyst: Pyrite (FeS₂). Journal of Physical Chemistry C, 2016, 120, 9547-9552.	1.5	37
14	Strain-induced band gap engineering in layered TiS3. Nano Research, 2018, 11, 225-232.	5.8	36
15	Dielectrophoretic assembly of liquid-phase-exfoliated TiS₃ nanoribbons for photodetecting applications. Chemical Communications, 2017, 53, 6164-6167.	2.2	22
16	Chemical vapor deposition growth of boronâ€“carbonâ€“nitrogen layers from methylamine borane thermolysis products. Nanotechnology, 2018, 29, 025603.	1.3	21
17	Ultrathin Transparent Bâ€“Câ€“N Layers Grown on Titanium Substrates with Excellent Electrocatalytic Activity for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 1922-1932.	2.5	16
18	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS₃ Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. ACS Applied Nano Materials, 2020, 3, 8794-8802.	2.4	15

#	Article	IF	Citations
19	Multi-terminal electronic transport in boron nitride encapsulated TiS₃ nanosheets. 2D Materials, 2020, 7, 015009.	2.0	14
20	Tunable Photodetectors via In Situ Thermal Conversion of TiS3 to TiO2. Nanomaterials, 2020, 10, 711.	1.9	14
21	Ternary transition titanium-niobium trisulfide as photoanode for assisted water splitting. Catalysis Today, 2019, 321-322, 107-112.	2.2	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.	1.2	7
23	On the van der Pauwâ€™s method applied to the measurement of low thermal conductivity materials. Review of Scientific Instruments, 2016, 87, 084902.	0.6	4