

Eduardo Flores

List of Publications by Year in descending order

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34
papers

1,052
citations

471371

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414303

32
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36
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docs citations

36
times ranked

1643
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Carrier Type of a Semiconducting 2D Metal-Organic Framework $\text{Cu}_3(\text{HHTP})_2$. ACS Applied Materials & Interfaces, 2022, 14, 12404-12411.	4.0	16
2	Imaging the Kirkendall effect in pyrite (FeS_2) thin films: Cross-sectional microstructure and chemical features. Acta Materialia, 2021, 205, 116582.	3.8	4
3	Integrating van der Waals materials on paper substrates for electrical and optical applications. Applied Materials Today, 2021, 23, 101012.	2.3	9
4	Borocarbonitride Layers on Titanium Dioxide Nanoribbons for Efficient Photoelectrocatalytic Water Splitting. Materials, 2021, 14, 5490.	1.3	4
5	Multi-terminal electronic transport in boron nitride encapsulated TiS_3 nanosheets. 2D Materials, 2020, 7, 015009.	2.0	14
6	Unravelling nanoporous anodic iron oxide formation. Electrochimica Acta, 2020, 330, 135241.	2.6	13
7	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS_3 Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. ACS Applied Nano Materials, 2020, 3, 8794-8802.	2.4	15
8	Electrochemical deposition and thermoelectric characterisation of a semiconducting 2-D metal-organic framework thin film. Journal of Materials Chemistry A, 2020, 8, 13197-13206.	5.2	36
9	Tunable Photodetectors via In Situ Thermal Conversion of TiS_3 to TiO_2 . Nanomaterials, 2020, 10, 711.	1.9	14
10	High mobility and high thermoelectric power factor in epitaxial ScN thin films deposited with plasma-assisted molecular beam epitaxy. Applied Physics Letters, 2020, 116, .	1.5	26
11	An XPS investigation on the influence of the substrate and growth conditions on pyrite thin films surface composition. Applied Surface Science, 2019, 492, 651-660.	3.1	8
12	Pyrite thin films on amorphous substrates: Interaction with the substrate and doping effects. Thin Solid Films, 2019, 672, 138-145.	0.8	5
13	Ternary transition titanium-niobium trisulfide as photoanode for assisted water splitting. Catalysis Today, 2019, 321-322, 107-112.	2.2	11
14	Beyond Mono-, Di-, and Trisulfides: Synthesizing Vanadium Tetrasulfide (VS_4) Films for Energy Conversion. ACS Applied Energy Materials, 2018, 1, 2333-2340.	2.5	19
15	Reactivity of a FeS Surface under Room Temperature Exposure to Nitrogen and H_2S . Journal of Physical Chemistry B, 2018, 122, 705-712.	1.2	5
16	Chemical vapor deposition growth of boron-carbon-nitrogen layers from methylamine borane thermolysis products. Nanotechnology, 2018, 29, 025603.	1.3	21
17	Strain-induced band gap engineering in layered TiS_3 . Nano Research, 2018, 11, 225-232.	5.8	36
18	Polarization-Sensitive and Broadband Photodetection Based on a Mixed-Dimensionality TiS_3/Si p-n Junction. Advanced Optical Materials, 2018, 6, 1800351.	3.6	64

#	ARTICLE	IF	CITATIONS
19	Improving the Efficiency of Thin Film Thermoelectric Generators under Constant Heat Flux by Using Substrates of Low Thermal Conductivity. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800277.	1.2	7
20	Large birefringence and linear dichroism in TiS ₃ nanosheets. <i>Nanoscale</i> , 2018, 10, 12424-12429.	2.8	40
21	High Current Density Electrical Breakdown of TiS ₃ Nanoribbon-Based Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1605647.	7.8	52
22	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. <i>2D Materials</i> , 2017, 4, 022003.	2.0	146
23	Dielectrophoretic assembly of liquid-phase-exfoliated TiS ₃ nanoribbons for photodetecting applications. <i>Chemical Communications</i> , 2017, 53, 6164-6167.	2.2	22
24	On the van der Pauw's method applied to the measurement of low thermal conductivity materials. <i>Review of Scientific Instruments</i> , 2016, 87, 084902.	0.6	4
25	Influence of temperature on thermoelectric properties of Fe _x Co _{1-x} S ₂ thin films: A semiconductor to semimetal conversion. <i>Thin Solid Films</i> , 2016, 600, 19-24.	0.8	20
26	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.	1.5	37
27	Synthesis and characterization of a family of layered trichalcogenides for assisted hydrogen photogeneration. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 802-806.	1.2	34
28	Marcasite revisited: Optical absorption gap at room temperature. <i>Solid State Communications</i> , 2016, 230, 20-24.	0.9	29
29	Electronic Bandgap and Exciton Binding Energy of Layered Semiconductor TiS ₃ . <i>Advanced Electronic Materials</i> , 2015, 1, 1500126.	2.6	59
30	Synthesis of Ternary Borocarbonitrides by High Temperature Pyrolysis of Ethane 1,2-Diamineborane. <i>Materials</i> , 2015, 8, 5974-5985.	1.3	13
31	Titanium trisulphide (TiS ₃) nanoribbons for easy hydrogen photogeneration under visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7959-7965.	5.2	39
32	Thermoelectric power of bulk black-phosphorus. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	135
33	Temperature-Dependent Raman Spectroscopy of Titanium Trisulfide (TiS ₃) Nanoribbons and Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24185-24190.	4.0	89
34	Hydrogen Storage by Titanium Based Sulfides: Nanoribbons (TiS ₃) and Nanoplates (TiS ₂). <i>J of Electrical Engineering</i> , 2015, 3, .	0.1	3