

Jonathan Rodríguez-Fernández

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

740
citations

566801

15
h-index

552369

26
g-index

40
all docs

40
docs citations

40
times ranked

1269
citing authors

#	ARTICLE	IF	CITATIONS
1	The Structure of the Cobalt Oxide/Au Catalyst Interface in Electrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11893-11897.	7.2	90
2	Formation of a surface covalent organic framework based on polyester condensation. <i>Chemical Communications</i> , 2012, 48, 6779.	2.2	82
3	Visualizing hydrogen-induced reshaping and edge activation in MoS ₂ and Co-promoted MoS ₂ catalyst clusters. <i>Nature Communications</i> , 2018, 9, 2211.	5.8	71
4	Thermal selectivity of intermolecular versus intramolecular reactions on surfaces. <i>Nature Communications</i> , 2016, 7, 11002.	5.8	66
5	Site-dependent reactivity of MoS ₂ nanoparticles in hydrodesulfurization of thiophene. <i>Nature Communications</i> , 2020, 11, 4369.	5.8	44
6	The Effect of Fe Dopant Location in Co(Fe)OOH Nanoparticles for the Oxygen Evolution Reaction. <i>ACS Nano</i> , 2021, 15, 18226-18236.	7.3	37
7	Temperature-controlled metal/ligand stoichiometric ratio in Ag-TCNE coordination networks. <i>Journal of Chemical Physics</i> , 2015, 142, 101930.	1.2	28
8	Phase Transitions of Cobalt Oxide Bilayers on Au(111) and Pt(111): The Role of Edge Sites and Substrate Interactions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 561-571.	1.2	26
9	Structural Dynamics of Ultrathin Cobalt Oxide Nanoislands under Potential Control. <i>Advanced Functional Materials</i> , 2021, 31, 2009923.	7.8	26
10	Long-Range Orientational Self-Assembly, Spatially Controlled Deprotonation, and Off-Centered Metalation of an Expanded Porphyrin. <i>Journal of the American Chemical Society</i> , 2017, 139, 14129-14136.	6.6	23
11	Basal plane oxygen exchange of epitaxial MoS ₂ without edge oxidation. <i>2D Materials</i> , 2019, 6, 045013.	2.0	22
12	Influence of thermal environments on the growth of bulk cadmium zinc telluride (CZT) single crystals. <i>Journal of Crystal Growth</i> , 2009, 311, 1264-1267.	0.7	17
13	Charge transfer-assisted self-limited decyanation reaction of TCNQ-type electron acceptors on Cu(100). <i>Chemical Communications</i> , 2014, 50, 833-835.	2.2	16
14	The Structure of the Cobalt Oxide/Au Catalyst Interface in Electrochemical Water Splitting. <i>Angewandte Chemie</i> , 2018, 130, 12069-12073.	1.6	16
15	Sulfur-driven switching of the Ullmann coupling on Au(111). <i>Chemical Communications</i> , 2018, 54, 3621-3624.	2.2	15
16	Structure and Stability of Au-Supported Layered Cobalt Oxide Nanoislands in Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9176-9182.	1.5	14
17	Structural and electronic properties of Fe dopants in cobalt oxide nanoislands on Au(111). <i>Journal of Chemical Physics</i> , 2019, 150, 041731.	1.2	14
18	Effect of Yb concentration on the resistivity and lifetime of CdTe:Ge:Yb codoped crystals. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	12

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19	Tuning Intermolecular Charge Transfer in Donor–Acceptor Two-Dimensional Crystals on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23505-23510.	1.5	11
20	Structure of CoO Thin Films on Pt(111) in Oxidation of CO. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17407-17415.	1.5	11
21	Growth of Bi doped cadmium zinc telluride single crystals by Bridgman oscillation method and its structural, optical, and electrical analyses. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	9
22	Dissociation of water on atomically-defined cobalt oxide nanoislands on Pt(111) and its effect on the adsorption of CO. <i>Journal of Materials Research</i> , 2019, 34, 379-393.	1.2	9
23	Shell or Dots – Precursor Controlled Morphology of Au–Se Deposits on CdSe Nanoparticles. <i>Chemistry of Materials</i> , 2016, 28, 2704-2714.	3.2	8
24	Electronic properties of single-layer CoO ₂ /Au(111). <i>2D Materials</i> , 2021, 8, 035050.	2.0	7
25	The cobalt oxidation state in preferential CO oxidation on CoO/Pt(111) investigated by <i>operando</i> X-ray photoemission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	1.3	7
26	Relationship between the cathodoluminescence emission and resistivity in In doped CdZnTe crystals. <i>Journal of Applied Physics</i> , 2009, 106, 044901.	1.1	6
27	Formation of Self-Assembled Chains of Tetrathiafulvalene on a Cu(100) Surface. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13080-13087.	1.1	6
28	Molecular Nanowire Bonding to Epitaxial Single-Layer MoS ₂ by an On-Surface Ullmann Coupling Reaction. <i>Small</i> , 2020, 16, 1906892.	5.2	6
29	Metal-Coordination Network vs Charge Transfer Complex: The Importance of the Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7922-7929.	1.5	5
30	Electrically Tunable Reactivity of Substrate-Supported Cobalt Oxide Nanocrystals. <i>Small</i> , 2022, 18, e2106407.	5.2	5
31	Sub-bandgap photoluminescence from as-grown and annealed layers of CdTe. <i>Superlattices and Microstructures</i> , 2009, 45, 228-233.	1.4	4
32	Development of CdZnTe doped with Bi for gamma radiation detection. <i>CrystEngComm</i> , 2010, 12, 507-510.	1.3	4
33	Thermal Transition from a Disordered, 2D Network to a Regular, 1D, Fe(II)–DCNQI Coordination Network. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16712-16721.	1.5	4
34	Anisotropic iron-doping patterns in two-dimensional cobalt oxide nanoislands on Au(111). <i>Nano Research</i> , 2019, 12, 2364-2372.	5.8	4
35	Lateral Interfaces between Monolayer MoS ₂ Edges and Armchair Graphene Nanoribbons on Au(111). <i>ACS Nano</i> , 2021, 15, 6699-6708.	7.3	4
36	Cadmium telluride: a silicon-compatible optical material as an alternative technology for building all-optical photonic devices. , 2008, , .		3

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37	Charge-Transfer-Induced Isomerization of DCNQI on Cu(100). Journal of Physical Chemistry C, 2014, 118, 27388-27392.	1.5	3
38	Effect of source composition on the vapor phase epitaxy of Cd _{1-x} Zn _x Te large-area layers. Journal of Crystal Growth, 2008, 310, 1669-1673.	0.7	2
39	Water dissociation on Mixed Co-Fe oxide bilayer nanoislands on Au(111). Journal of Physics Condensed Matter, 2022, , .	0.7	2
40	Growth and characterization of CdTe:Ge:Yb. Journal of Crystal Growth, 2008, 310, 2076-2079.	0.7	1