

# El Tayeb Bentria

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

364  
citations

933447

10  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

634  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen Bonding and Stability of Hybrid Organic–Inorganic Perovskites. <i>ChemSusChem</i> , 2016, 9, 2648-2655.	6.8	109
2	The effect of vanadium impurity on Nickel $\gamma$ (012) grain boundary. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 577, 197-201.	5.6	44
3	Enhancing Intrinsic Stability of Hybrid Perovskite Solar Cell by Strong, yet Balanced, Electronic Coupling. <i>Scientific Reports</i> , 2016, 6, 30305.	3.3	42
4	Reduced work function of graphene by metal adatoms. <i>Applied Surface Science</i> , 2017, 394, 98-107.	6.1	36
5	Hydrogen bonding: a mechanism for tuning electronic and optical properties of hybrid organic–inorganic frameworks. <i>Npj Computational Materials</i> , 2016, 2, .	8.7	32
6	Ab initio investigation of the elastic and piezoelectric properties of lithium based Chalcogenides $\text{LiMX}_2$ (M=Ga,In; X=S,Se). <i>Computational Materials Science</i> , 2013, 68, 379-383.	3.0	22
7	Searching for the rate determining step of the $\text{H}_2\text{S}$ reaction on Fe (110) surface. <i>Applied Surface Science</i> , 2020, 532, 147470.	6.1	13
8	The role of emerging grain boundary at iron surface, temperature and hydrogen on metal dusting initiation. <i>Acta Materialia</i> , 2017, 135, 340-347.	7.9	12
9	Elucidating the role of extended surface defects at Fe surfaces on CO adsorption and dissociation. <i>Applied Surface Science</i> , 2019, 491, 792-798.	6.1	11
10	Solar Cell Materials by Design: Hybrid Pyroxene Corner–Sharing $\text{VO}_4$ Tetrahedral Chains. <i>ChemSusChem</i> , 2017, 10, 1931-1942.	6.8	10
11	Capturing the Iron Carburization Mechanisms from the Surface to Bulk. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28569-28579.	3.1	8
12	Toward a better understanding of the enhancing/embrittling effects of impurities in Nickel grain boundaries. <i>Scientific Reports</i> , 2019, 9, 14024.	3.3	6
13	Accelerating the Design of Photocatalytic Surfaces for Antimicrobial Application: Machine Learning Based on a Sparse Dataset. <i>Catalysts</i> , 2021, 11, 1001.	3.5	6
14	Insights on the effect of water content in carburizing gas mixtures on the metal dusting corrosion of iron. <i>Applied Surface Science</i> , 2022, 579, 152138.	6.1	5
15	Enhancing the electronic dimensionality of hybrid organic–inorganic frameworks by hydrogen bonded molecular cations. <i>Materials Horizons</i> , 2019, 6, 1187-1196.	12.2	4
16	Controlling surface chemistry of CO reactions on Fe surface by S blocking: A first-principles and microkinetic studies. <i>Applied Surface Science</i> , 2022, 571, 151216.	6.1	2
17	Oxychalcogenide Perovskite Solar Cells: A Multiscale Design Approach. <i>Energy Technology</i> , 2020, 8, 1900766.	3.8	1