

Xin-Chun Lai

List of Publications by Year in descending order

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623734

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docs citations

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times ranked

1491
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of Kondo lattice behavior in a van der Waals itinerant ferromagnet, Fe ₃ GeTe ₂ . Science Advances, 2018, 4, eaao6791.	10.3	157
2	Gold nanoparticles as sensors in the colorimetric and fluorescence detection of chemical warfare agents. Coordination Chemistry Reviews, 2016, 311, 75-84.	18.8	107
3	Anchoring carbon nanotubes and post-hydroxylation treatment enhanced Ni nanofiber catalysts towards efficient hydrous hydrazine decomposition for effective hydrogen generation. Chemical Communications, 2019, 55, 9011-9014.	4.1	107
4	Direct observation of how the heavy-fermion state develops in CeCoIn ₅ . Physical Review B, 2017, 96, .	3.2	94
5	Band Dependent Interlayer f-Electron Hybridization in CeRhIn ₅ . Physical Review Letters, 2018, 120, 066403.	7.8	49
6	Observation of Dirac cone band dispersions in FeSe thin films by photoemission spectroscopy. Physical Review B, 2016, 93, .	3.2	41
7	Effects of scandium addition on microstructure, mechanical and thermal properties of cast Be-Al alloy. Journal of Alloys and Compounds, 2018, 737, 655-664.	5.5	30
8	CaO-MgO-Al ₂ O ₃ -SiO ₂ corrosion behavior of air-plasma-sprayed (La _{1-x} Yb _x) ₂ Zr ₂ O ₇ . Journal of the American Ceramic Society, 2019, 102, 2029-2040.	3.8	26
9	UN ₂ layer formed on uranium metal by glow plasma nitriding. Journal of Alloys and Compounds, 2015, 620, 289-293.	5.5	23
10	Cesium-Containing Perovskite Solar Cell Based on Graphene/TiO ₂ Electron Transport Layer. ChemistrySelect, 2017, 2, 9433-9437.	1.5	21
11	Orbital-Selective Kondo Entanglement and Antiferromagnetic Order in USb ₂ . Physical Review Letters, 2019, 123, 106402.	7.8	21
12	Study on the electronic structure of $\hat{1}\pm$ -U ₂ N ₃ by XPS and first principles. Journal of Alloys and Compounds, 2016, 664, 745-749.	5.5	20
13	Study of the initial oxidation characteristics of uranium with pure oxygen below 100 Å°C by spectroscopic ellipsometry. Surface and Interface Analysis, 2008, 40, 645-648.	1.8	17
14	Kondo scenario of the $\hat{1}\pm$ phase transition in single crystalline cerium thin films. Npj Quantum Materials, 2020, 5, .	5.2	17
15	Localized to itinerant transition of f electrons in ordered Ce films on W(110). Physical Review B, 2018, 97, .	3.2	14
16	Characterizations on the microstructure and micro-mechanics of cast Be-Al-0.4Sc-0.4Zr alloy prepared by vacuum induction melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 512-524.	5.6	14
17	Tunable Fe-vacancy disorder-order transition in FeSe thin films. Physical Review B, 2016, 93, .	3.2	12
18	Sc and Sc-Zr effects on microstructure and mechanical properties of Be-Al alloy. Materials Science and Technology, 2018, 34, 480-486.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Microstructure and Properties of Vacuum Cast Sc-Containing Be-Al Alloys. International Journal of Metalcasting, 2019, 13, 201-212.	1.9	6
20	Supported Pd nanoclusters for the hydrogen mitigation application in severe accidents. Nuclear Engineering and Design, 2017, 316, 93-98.	1.7	5
21	Cobalt Salt as Efficient Dopant for Spiro-MeOTAD in Cesium-Containing Planar Perovskite Solar Cells. Journal of Nanoscience and Nanotechnology, 2018, 18, 2898-2902.	0.9	5
22	Crossover behavior of the localized to itinerant transition of $5f$ electrons in the antiferromagnetic Kondo lattice	3.2	5
23	Physical properties and field-induced metamagnetic transitions in $U_{0.8}Au_{0.2}Sb_2$. Scientific Reports, 2018, 8, 7835.	3.3	3
24	Hydrothermal synthesis of uranium dioxide and graphene composite and its application as an additive for uranium-dioxide-based accident tolerant fuel. Ceramics International, 2021, 47, 11249-11256.	4.8	3
25	Ferromagnetism and heavy fermion semiconductor-like behavior in $UFe_{0.6}Sb_2$ single crystals. Journal of Alloys and Compounds, 2016, 663, 672-676.	5.5	2
26	In-situ synthesized nanocrystalline UO_2/SiC composite with superior thermal conductivity. Ceramics International, 2021, 47, 31160-31167.	4.8	2
27	Ultrasonic Remove of Particle Aggregation in Carbon Based Counter Electrodes for Dye-Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2018, 18, 4366-4370.	0.9	1
28	Tunable magnetic orders in $U_{1-x}Sb_x$. Chinese Physics B, 2019, 28, 017102.	1.4	0
29	Synthesis of composite of graphene and UO_3 composite via one-step solution chemical reaction and its application to UO_2 -based accident tolerant fuel. Ceramics International, 2021, , .	4.8	0