

Der-Hsin Wei

List of Publications by Year in descending order

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60
papers

992
citations

471371

17
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477173

29
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61
all docs

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61
times ranked

1253
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Orientation of Evaporated Pentacene Films on Gold: Alignment Effect of Self-Assembled Monolayer. <i>Langmuir</i> , 2005, 21, 2260-2266.	1.6	127
2	Layer-Dependent and In-Plane Anisotropic Properties of Low-Temperature Synthesized Few-Layer PdSe ₂ Single Crystals. <i>ACS Nano</i> , 2020, 14, 4963-4972.	7.3	64
3	Desorption and molecular interactions on surfaces: , and. <i>Surface Science</i> , 1997, 381, 49-64.	0.8	58
4	An x-ray photoemission electron microscope using an electron mirror aberration corrector for the study of complex materials. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S1339-S1350.	0.7	45
5	X-PEEM, XPS and ToF-SIMS characterisation of xanthate induced chalcopyrite flotation: Effect of pulp potential. <i>Surface Science</i> , 2015, 635, 70-77.	0.8	44
6	How Antiferromagnetism Drives the Magnetization of a Ferromagnetic Thin Film to Align Out of Plane. <i>Physical Review Letters</i> , 2013, 110, 117203.	2.9	41
7	Magnetic Response of an Ultrathin Cobalt Film in Contact with an Organic Pentacene Layer. <i>Physical Review Letters</i> , 2010, 104, 177204.	2.9	40
8	Wall profile of thick photoresist generated via contact printing. <i>Journal of Microelectromechanical Systems</i> , 1999, 8, 18-26.	1.7	37
9	Enhanced Magnetic Anisotropy via Quasi-Molecular Magnet at Organic-Ferromagnetic Contact. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 310-316.	2.1	36
10	Ultra-deep LIGA process. <i>Journal of Micromechanics and Microengineering</i> , 1999, 9, 58-63.	1.5	34
11	Exploring the magnetic and organic microstructures with photoemission electron microscope. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 429-435.	0.8	29
12	Non-monotonic lateral interactions in CO/Pt(111). <i>Surface Science</i> , 1994, 320, 77-84.	0.8	28
13	Collecting photoelectrons with a scanning tunneling microscope nanotip. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	25
14	Highly Oriented Growth of p-Sexiphenyl Molecular Nanocrystals on Rubbed Polymethylene Surface. <i>Macromolecules</i> , 2005, 38, 9617-9624.	2.2	21
15	The Soft X-ray Scanning Photoemission Microscopy Project at SRRRC. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 299-304.	1.0	20
16	Trends in lateral interactions between CO chemisorbed on low index copper surfaces. <i>Surface Science</i> , 1995, 326, 167-176.	0.8	19
17	Improve Hole Collection by Interfacial Chemical Redox Reaction at a Mesoscopic NiO/CH ₃ NH ₃ PbI ₃ Heterojunction for Efficient Photovoltaic Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600135.	1.9	18
18	Interactions between adsorbed molecules: CO on Ni(111). <i>Surface Science</i> , 1997, 370, 64-70.	0.8	16

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19	Thermally modulated hydrogenation in Fex/Pd$1-x$ alloy films: Temperature-driven peculiar variation of magnetism. Applied Physics Letters, 2020, 116, .	1.5	16
20	Modeling the acceleration field and objective lens for an aberration corrected photoemission electron microscope. Review of Scientific Instruments, 2002, 73, 1514-1517.	0.6	15
21	Crucial role of interlayer distance for antiferromagnet-induced perpendicular magnetic anisotropy. Physical Review B, 2015, 92, .	1.1	15
22	The origin of interfacial electronic and magnetic degradation for a ferromagnet atop organic conjugated molecules. Synthetic Metals, 2011, 161, 575-580.	2.1	14
23	Interfacial spectroscopic characterization of organic/ferromagnet hetero-junction of 3,4,9,10-perylene-teracarboxylic dianhydride-based organic spin valves. Applied Physics Letters, 2014, 104, 083301.	1.5	14
24	Effectiveness of organic molecules for spin filtering in an organic spin valve: Reaction-induced spin polarization for Co atop Alq₃ hetero-junction. Physical Review B, 2015, 91, .	1.1	14
25	Thickness dependence of Co anisotropy in TbFe/Co exchange-coupled bilayers. Journal of Applied Physics, 2004, 95, 6846-6848.	1.1	13
26	H ₂ S-Induced Reorganization of Mixed Monolayer of Carboxylic Derivatives on Silver Surface. Langmuir, 2004, 20, 3641-3647.	1.6	13
27	Effect of field cooling process and ion-beam bombardment on the exchange bias of NiCo/(Ni, Co)O bilayers. Thin Solid Films, 2014, 570, 383-389.	0.8	11
28	Effects of the antiferromagnetic spin structure on antiferromagnetically induced perpendicular magnetic anisotropy. Physical Review B, 2017, 96, .	1.1	11
29	Molecular interactions on surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2029-2036.	0.9	10
30	Layer- and lateral-resolved magnetization studies using photoemission electron microscopy. Journal of Magnetism and Magnetic Materials, 2004, 282, 49-52.	1.0	10
31	Surface Chemical Characterisation of Pyrite Exposed to Acidithiobacillus ferrooxidans and Associated Extracellular Polymeric Substances. Minerals (Basel, Switzerland), 2018, 8, 132.	0.8	10
32	Magnetic disparities at the interfaces of Coδ-pentaceneδ-Co hybrid structures. Synthetic Metals, 2011, 161, 581-585.	2.1	9
33	Direct imaging and spectral identification of the interfaces in organic semiconductor-ferromagnet heterojunction. Applied Physics Letters, 2012, 101, .	1.5	9
34	Spin filtering of a termination-controlled LSMO/Alq₃ heterojunction for an organic spin valve. Journal of Materials Chemistry C, 2017, 5, 9128-9137.	2.7	9
35	Interfacial symmetry of Coδ-Alq₃-Co hybrid structures for effective spin filtering. Applied Surface Science, 2015, 354, 90-94.	3.1	8
36	Molecular interactions and cooperativity in coadsorption. Surface Science, 1996, 355, L319-L324.	0.8	7

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37	Lateral interactions and corrugation in physisorption systems: CH ₄ /Cu(100). Journal of Chemical Physics, 1996, 105, 7808-7814.	1.2	7
38	Perpendicular magnetic anisotropy of Ni/Cu(001) films with surface passivation. Journal of Applied Physics, 2012, 111, 07C113.	1.1	7
39	Probing magnetoelastic effects of ultrathin antiferromagnets via magnetic domain imaging in ferromagnetic-antiferromagnetic bilayers. Physical Review B, 2014, 90, .	1.1	7
40	Photoelectron Microscopy Projects at SRRC. Surface Review and Letters, 2003, 10, 617-624.	0.5	6
41	Extending the Control of Antiferromagnetic Ferromagnetic Exchange Coupling on Perpendicular Magnetization into the Soft Magnetic Regime. Applied Physics Express, 2012, 5, 063008.	1.1	6
42	Dipolar magnetism in assembled Co nanoparticles on graphene. Physical Chemistry Chemical Physics, 2018, 20, 20629-20634.	1.3	6
43	Perpendicular magnetic anisotropy induced by NiMn-based antiferromagnetic films with in-plane spin orientations: Roles of interfacial and volume antiferromagnetic moments. Physical Review B, 2021, 104, .	1.1	5
44	Interfacial magnetic coupling in Co/antiferromagnetic van der Waals compound FePS ₃ . Applied Surface Science, 2021, 567, 150864.	3.1	5
45	Antiferromagnet-induced perpendicular magnetic anisotropy in ferromagnetic Co/Fe films with strong in-plane magnetic anisotropy. Physical Review B, 2022, 105, .	1.1	5
46	Domain configurations and hysteresis behaviors of ultrathin cobalt film deposited on copper surface. Journal of Magnetism and Magnetic Materials, 2007, 310, e762-e763.	1.0	4
47	Antiferromagnet-induced perpendicular magnetic anisotropy in ferromagnetic/antiferromagnetic/ferromagnetic trilayers. Physical Review B, 2016, 94, .	1.1	4
48	Spontaneously induced magnetic anisotropy in an ultrathin Co/MoS ₂ heterojunction. Nanoscale Horizons, 2020, 5, 1058-1064.	4.1	4
49	Substrate-mediated dispersion interaction effects in the properties of a physisorbed gas. Journal of Chemical Physics, 1993, 99, 4152-4159.	1.2	3
50	Promoting exchange bias coupling in Fe/MgO(0001) films by controlling interface oxide distribution. Applied Surface Science, 2020, 533, 147501.	3.1	3
51	Perpendicular magnetic anisotropy induced by atomic layers: Crucial role of interface structural order. Physical Review B, 2021, 104, .		
52	Imaging buried objects with the hard/soft x-ray photoemission electron microscope. Journal of Applied Physics, 2021, 130, 175307.	1.1	2
53	Study of Co thin films deposited on low-index Cu surfaces by photoemission electron microscopy. Journal of Magnetism and Magnetic Materials, 2006, 304, e94-e96.	1.0	1
54	Hybridization regulated metal penetration at transition metal-organic semiconductor contacts. Applied Physics Letters, 2018, 112, .	1.5	1

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55	Promoting control of antiferromagnet-induced perpendicular magnetic anisotropy in magnetic multilayers: Effects of applying in-plane magnetic supporting layers. <i>Applied Physics Express</i> , 2019, 12, 043004.	1.1	1
56	Dependence of magnetic domain patterns on plasma-induced differential oxidation of CoPd thin films. <i>Surfaces and Interfaces</i> , 2021, 27, 101582.	1.5	1
57	Enhanced Magnetic Order and Reversed Magnetization Induced by Strong Antiferromagnetic Coupling at Hybrid Ferromagnetic/Organic Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	4.0	1
58	A simple powerful computing system for tomography imaging. <i>Review of Scientific Instruments</i> , 2002, 73, 1605-1607.	0.6	0
59	Spin alignment of surface oxidized $\text{Co}_x\text{Ni}_{1-x}/\text{Cu}(001)$. <i>Journal of Applied Physics</i> , 2013, 113, 17B518.	1.1	0
60	Modulating the Magnetic Coupling in Paramagnetic Co Nanoparticles Embedded in Tris(8-hydroxyquinoline)aluminum for Spintronics Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 5240-5249.	2.4	0