Der-Hsin Wei

List of Publications by Year
in descending order

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		471371	477173
60	992	17	29
papers	citations	h-index	g-index

61	61	61	1253
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Magnetic Order and Reversed Magnetization Induced by Strong Antiferromagnetic Coupling at Hybrid Ferromagneticâ€“Organic Heterojunctions. ACS Applied Materials & Interfaces, 2022, , .	4.0	1
2	Antiferromagnet-induced perpendicular magnetic anisotropy in ferromagnetic Co/Fe films with strong in-plane magnetic anisotropy. Physical Review B, 2022, 105, .	1.1	5
3	Modulating the Magnetic Coupling in Paramagnetic Co Nanoparticles Embedded in Tris(8-hydroxyquinoline)aluminum for Spintronics Applications. ACS Applied Nano Materials, 2021, 4, 5240-5249.	2.4	0
4	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
5	Interfacial magnetic coupling in Co/antiferromagnetic van der Waals compound FePS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e209" altimg="si30.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>. Applied Surface Science, 2021, 567, 150864.	3.1	5
6	Dependence of magnetic domain patterns on plasma-induced differential oxidation of CoPd thin films. Surfaces and Interfaces, 2021, 27, 101582.	1.5	1
7	Imaging buried objects with the hard/soft x-ray photoemission electron microscope. Journal of Applied Physics, 2021, 130, 175307.	1.1	2
8	Perpendicular magnetic anisotropy induced by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>6</mml:mn><mml:mi>p</mml:mi></mml:mrow></mml:r atomic layers: Crucial role of interface structural order. Physical Review B, 2021, 104, .	1.1	3
9	Promoting exchange bias coupling in Fe/MgO(0Â0Â1) films by controlling interface oxide distribution. Applied Surface Science, 2020, 533, 147501.	3.1	3
10	Layer-Dependent and In-Plane Anisotropic Properties of Low-Temperature Synthesized Few-Layer PdSe₂ Single Crystals. ACS Nano, 2020, 14, 4963-4972.	7.3	64
11	Thermally modulated hydrogenation in FexPd1â^'x alloy films: Temperature-driven peculiar variation of magnetism. Applied Physics Letters, 2020, 116, .	1.5	16
12	Spontaneously induced magnetic anisotropy in an ultrathin Co/MoS₂ heterojunction. Nanoscale Horizons, 2020, 5, 1058-1064.	4.1	4
13	Promoting control of antiferromagnet-induced perpendicular magnetic anisotropy in magnetic multilayers: Effects of applying in-plane magnetic supporting layers. Applied Physics Express, 2019, 12, 043004.	1.1	1
14	Hybridization regulated metal penetration at transition metal-organic semiconductor contacts. Applied Physics Letters, 2018, 112, .	1.5	1
15	Surface Chemical Characterisation of Pyrite Exposed to Acidithiobacillus ferrooxidans and Associated Extracellular Polymeric Substances. Minerals (Basel, Switzerland), 2018, 8, 132.	0.8	10
16	Dipolar magnetism in assembled Co nanoparticles on graphene. Physical Chemistry Chemical Physics, 2018, 20, 20629-20634.	1.3	6
17	Effects of the antiferromagnetic spin structure on antiferromagnetically induced perpendicular magnetic anisotropy. Physical Review B, 2017, 96, .	1.1	11
18	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

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19	Improve Hole Collection by Interfacial Chemical Redox Reaction at a Mesoscopic NiO/CH₃NH₃PbI₃ Heterojunction for Efficient Photovoltaic Cells. Advanced Materials Interfaces, 2016, 3, 1600135.	1.9	18
20	Antiferromagnet-induced perpendicular magnetic anisotropy in ferromagnetic/antiferromagnetic/ferromagnetic trilayers. Physical Review B, 2016, 94, .	1.1	4
21	Crucial role of interlayer distance for antiferromagnet-induced perpendicular magnetic anisotropy. Physical Review B, 2015, 92, .	1.1	15
22	X-PEEM, XPS and ToF-SIMS characterisation of xanthate induced chalcopyrite flotation: Effect of pulp potential. Surface Science, 2015, 635, 70-77.	0.8	44
23	Interfacial symmetry of Coâ€“Alq3â€“Co hybrid structures for effective spin filtering. Applied Surface Science, 2015, 354, 90-94.	3.1	8
24	Effectiveness of organic molecules for spin filtering in an organic spin valve: Reaction-induced spin polarization for Co atop<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Alq</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, .	1.1	14
25	Probing magnetoelastic effects of ultrathin antiferromagnets via magnetic domain imaging in ferromagnetic-antiferromagnetic bilayers. Physical Review B, 2014, 90, .	1.1	7
26	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
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	Enhanced Magnetic Anisotropy via Quasi-Molecular Magnet at Organic-Ferromagnetic Contact. Journal of Physical Chemistry Letters, 2013, 4, 310-316.	2.1	36
29	How Antiferromagnetism Drives the Magnetization of a Ferromagnetic Thin Film to Align Out of Plane. Physical Review Letters, 2013, 110, 117203.	2.9	41
30	Spin alignment of surface oxidized CoxNi1â€“x/Cu(001). Journal of Applied Physics, 2013, 113, 17B518.	1.1	0
31	Direct imaging and spectral identification of the interfaces in organic semiconductor-ferromagnet heterojunction. Applied Physics Letters, 2012, 101, .	1.5	9
32	Extending the Control of Antiferromagneticâ€“Ferromagnetic Exchange Coupling on Perpendicular Magnetization into the Soft Magnetic Regime. Applied Physics Express, 2012, 5, 063008.	1.1	6
33	Exploring the magnetic and organic microstructures with photoemission electron microscope. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 429-435.	0.8	29
34	Perpendicular magnetic anisotropy of Ni/Cu(001) films with surface passivation. Journal of Applied Physics, 2012, 111, 07C113.	1.1	7
35	The origin of interfacial electronic and magnetic degradation for a ferromagnet atop organic conjugated molecules. Synthetic Metals, 2011, 161, 575-580.	2.1	14
36	Magnetic disparities at the interfaces of Coâ€“pentaceneâ€“Co hybrid structures. Synthetic Metals, 2011, 161, 581-585.	2.1	9

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37	Magnetic Response of an Ultrathin Cobalt Film in Contact with an Organic Pentacene Layer. Physical Review Letters, 2010, 104, 177204.	2.9	40
38	Collecting photoelectrons with a scanning tunneling microscope nanotip. Applied Physics Letters, 2008, 92, .	1.5	25
39	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
40	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
41	An x-ray photoemission electron microscope using an electron mirror aberration corrector for the study of complex materials. Journal of Physics Condensed Matter, 2005, 17, S1339-S1350.	0.7	45
42	Highly Oriented Growth ofp-Sexiphenyl Molecular Nanocrystals on Rubbed Polymethylene Surface. Macromolecules, 2005, 38, 9617-9624.	2.2	21
43	Molecular Orientation of Evaporated Pentacene Films on Gold:Â Alignment Effect of Self-Assembled Monolayer. Langmuir, 2005, 21, 2260-2266.	1.6	127
44	Thickness dependence of Co anisotropy in TbFe/Co exchange-coupled bilayers. Journal of Applied Physics, 2004, 95, 6846-6848.	1.1	13
45	Layer- and lateral-resolved magnetization studies using photoemission electron microscopy. Journal of Magnetism and Magnetic Materials, 2004, 282, 49-52.	1.0	10
46	H2S-Induced Reorganization of Mixed Monolayer of Carboxylic Derivatives on Silver Surface. Langmuir, 2004, 20, 3641-3647.	1.6	13
47	Photoelectron Microscopy Projects at SRRC. Surface Review and Letters, 2003, 10, 617-624.	0.5	6
48	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
49	A simple powerful computing system for tomography imaging. Review of Scientific Instruments, 2002, 73, 1605-1607.	0.6	0
50	Ultra-deep LIGA process. Journal of Micromechanics and Microengineering, 1999, 9, 58-63.	1.5	34
51	Wall profile of thick photoresist generated via contact printing. Journal of Microelectromechanical Systems, 1999, 8, 18-26.	1.7	37
52	The Soft X-ray Scanning Photoemission Microscopy Project at SRRC. Journal of Synchrotron Radiation, 1998, 5, 299-304.	1.0	20
53	Interactions between adsorbed molecules: CO on Ni(111). Surface Science, 1997, 370, 64-70.	0.8	16
54	Desorption and molecular interactions on surfaces: , and. Surface Science, 1997, 381, 49-64.	0.8	58

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55	Molecular interactions and cooperativity in coadsorption:. Surface Science, 1996, 355, L319-L324.	0.8	7
56	Lateral interactions and corrugation in physisorption systems: CH4/Cu(100). Journal of Chemical Physics, 1996, 105, 7808-7814.	1.2	7
57	Trends in lateral interactions between CO chemisorbed on low index copper surfaces. Surface Science, 1995, 326, 167-176.	0.8	19
58	Molecular interactions on surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2029-2036.	0.9	10
59	Non-monotonic lateral interactions in CO/Pt(111). Surface Science, 1994, 320, 77-84.	0.8	28
60	Substrateâ€mediated dispersion interaction effects in the properties of a physisorbed gas. Journal of Chemical Physics, 1993, 99, 4152-4159.	1.2	3