

Peter J Metaxas

List of Publications by Year in descending order

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44
papers

1,588
citations

471509

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docs citations

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times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	Creep and Flow Regimes of Magnetic Domain-Wall Motion in Ultrathin $\text{Pt}/\text{Co}/\text{Pt}$ with Perpendicular Anisotropy. <i>Physical Review Letters</i> , 2007, 99, 217208.	7.8	510
2	Domain wall mobility, stability and Walker breakdown in magnetic nanowires. <i>Europhysics Letters</i> , 2007, 78, 57007.	2.0	274
3	Gas hydrate formation probability distributions: Induction times, rates of nucleation and growth. <i>Fuel</i> , 2019, 252, 448-457.	6.4	53
4	Universal magnetic domain wall dynamics in the presence of weak disorder. <i>Comptes Rendus Physique</i> , 2013, 14, 651-666.	0.9	50
5	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T_2) in sandstone rocks. <i>Journal of Petroleum Science and Engineering</i> , 2019, 175, 985-997.	4.2	49
6	Gas hydrate formation probability and growth rate as a function of kinetic hydrate inhibitor (KHI) concentration. <i>Chemical Engineering Journal</i> , 2020, 388, 124177.	12.7	47
7	The delay of gas hydrate formation by kinetic inhibitors. <i>Chemical Engineering Journal</i> , 2021, 411, 128478.	12.7	46
8	Sensing magnetic nanoparticles using nano-confined ferromagnetic resonances in a magnonic crystal. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	44
9	Gas Hydrate Formation Probability Distributions: The Effect of Shear and Comparisons with Nucleation Theory. <i>Langmuir</i> , 2018, 34, 3186-3196.	3.5	43
10	High domain wall velocities via spin transfer torque using vertical current injection. <i>Scientific Reports</i> , 2013, 3, 1829.	3.3	39
11	Dynamic Binding of Driven Interfaces in Coupled Ultrathin Ferromagnetic Layers. <i>Physical Review Letters</i> , 2010, 104, 237206.	7.8	36
12	Nanopatterning-Enhanced Sensitivity and Response Time of Dynamic Palladium/Cobalt/Palladium Hydrogen Gas Sensors. <i>Advanced Materials Technologies</i> , 2016, 1, 1600097.	5.8	33
13	Adjustable sensitivity for hydrogen gas sensing using perpendicular-to-plane ferromagnetic resonance in Pd/Co Bi-layer films. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3407-3414.	7.1	25
14	Hydrate nucleation and growth on water droplets acoustically-levitated in high-pressure natural gas. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21685-21688.	2.8	24
15	Periodic magnetic domain wall pinning in an ultrathin film with perpendicular anisotropy generated by the stray magnetic field of a ferromagnetic nanodot array. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	22
16	Magnetic domain wall creep in the presence of an effective interlayer coupling field. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 2571-2575.	2.3	19
17	Cyclodextrins as eco-friendly nucleation promoters for methane hydrate. <i>Chemical Engineering Journal</i> , 2021, 417, 127932.	12.7	19
18	Resonance-Based Detection of Magnetic Nanoparticles and Microbeads Using Nanopatterned Ferromagnets. <i>Physical Review Applied</i> , 2016, 6, .	3.8	18

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19	High-resolution performance tests of nucleation and growth suppression by two kinetic hydrate inhibitors. <i>Chemical Engineering Science</i> , 2021, 244, 116776.	3.8	18
20	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	14
21	Localized magnetic fields enhance the field sensitivity of the gyrotropic resonance frequency of a magnetic vortex. <i>Physical Review B</i> , 2016, 93, .	3.2	14
22	Sensitivity of ferromagnetic resonance in PdCo alloyed films to hydrogen gas. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7715-7724.	7.1	14
23	The impact of mono-ethylene glycol and kinetic inhibitors on methane hydrate formation. <i>Chemical Engineering Journal</i> , 2022, 427, 131531.	12.7	14
24	Investigation of Cerium-Substituted Europium Iron Garnets Deposited by Biased Target Ion Beam Deposition. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-7.	2.1	13
25	Nucleation rates of carbon dioxide hydrate. <i>Chemical Engineering Journal</i> , 2022, 443, 136359.	12.7	13
26	Extracting nucleation rates from ramped temperature measurements of gas hydrate formation. <i>Chemical Engineering Journal</i> , 2022, 450, 137895.	12.7	13
27	Sensitivity Enhancement of a Pd/Co Bilayer Film for Hydrogen Gas Sensing Using a Perpendicular-to-Plane Ferromagnetic Resonance Configuration. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-3.	2.1	12
28	Resonant translational, breathing, and twisting modes of transverse magnetic domain walls pinned at notches. <i>Physical Review B</i> , 2016, 93, .	3.2	11
29	High-Fidelity Evaluation of Hybrid Gas Hydrate Inhibition Strategies. <i>Energy & Fuels</i> , 2020, 34, 15983-15989.	5.1	11
30	Measurements of solidification kinetics for benzene in methane at high pressures and cryogenic temperatures. <i>Chemical Engineering Journal</i> , 2021, 407, 127086.	12.7	11
31	Expansion and relaxation of magnetic mirror domains in a Pt/Co/Pt/Co/Pt multilayer with antiferromagnetic interlayer coupling. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 024212.	1.8	9
32	Gas hydrate nucleation in acoustically levitated water droplets. <i>Chemical Engineering Journal</i> , 2021, , 133494.	12.7	9
33	Frequency-based nanoparticle sensing over large field ranges using the ferromagnetic resonances of a magnetic nanodisc. <i>Nanotechnology</i> , 2016, 27, 455502.	2.6	8
34	Current-induced resonant depinning of a transverse magnetic domain wall in a spin valve nanostrip. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	7
35	Pd/Co bi-layer films for microwave-frequency hydrogen gas sensing applications. , 2014, , .		7
36	Exchange-mediated, nonlinear, out-of-plane magnetic field dependence of the ferromagnetic vortex gyrotropic mode frequency driven by core deformation. <i>Physical Review B</i> , 2016, 94, .	3.2	7

#	ARTICLE	IF	CITATIONS
37	Domain Wall Motion in Nanostructures. Handbook of Surface Science, 2015, 5, 335-370.	0.3	6
38	Electrical measurement of magnetic-field-impeded polarity switching of a ferromagnetic vortex core. Physical Review B, 2016, 94, .	3.2	6
39	Impact of Hydrogen Gas on the Inverse Spin Hall Effect in Palladium/Cobalt Bilayer Films. IEEE Magnetics Letters, 2018, 9, 1-4.	1.1	6
40	Nanoparticle-Modified Magnetic Vortex Dynamics. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	5
41	Reconfigurable magnetic domain wall pinning using vortex-generated magnetic fields. Applied Physics Letters, 2017, 110, 182404.	3.3	4
42	Chirality-mediated bistability and strong frequency downshifting of the gyrotropic resonance of a magnetic vortex due to dynamic destiffening. Physical Review B, 2017, 96, .	3.2	2
43	Managing Hydrate Formation in Subsea Production. , 2020, , .		2
44	Publisher's Note: Electrical measurement of magnetic-field-impeded polarity switching of a ferromagnetic vortex core [Phys. Rev. B 94, 100402(R) (2016)]. Physical Review B, 2016, 94, .	3.2	1