

Peter J Metaxas

List of Publications by Year in descending order

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44
papers

1,588
citations

471509

17
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of mono-ethylene glycol and kinetic inhibitors on methane hydrate formation. Chemical Engineering Journal, 2022, 427, 131531.	12.7	14
2	Nucleation rates of carbon dioxide hydrate. Chemical Engineering Journal, 2022, 443, 136359.	12.7	13
3	Extracting nucleation rates from ramped temperature measurements of gas hydrate formation. Chemical Engineering Journal, 2022, 450, 137895.	12.7	13
4	Cyclodextrins as eco-friendly nucleation promoters for methane hydrate. Chemical Engineering Journal, 2021, 417, 127932.	12.7	19
5	Measurements of solidification kinetics for benzene in methane at high pressures and cryogenic temperatures. Chemical Engineering Journal, 2021, 407, 127086.	12.7	11
6	The delay of gas hydrate formation by kinetic inhibitors. Chemical Engineering Journal, 2021, 411, 128478.	12.7	46
7	High-resolution performance tests of nucleation and growth suppression by two kinetic hydrate inhibitors. Chemical Engineering Science, 2021, 244, 116776.	3.8	18
8	Gas hydrate nucleation in acoustically levitated water droplets. Chemical Engineering Journal, 2021, , 133494.	12.7	9
9	High-Fidelity Evaluation of Hybrid Gas Hydrate Inhibition Strategies. Energy & Fuels, 2020, 34, 15983-15989.	5.1	11
10	Managing Hydrate Formation in Subsea Production. , 2020, , .		2
11	Gas hydrate formation probability and growth rate as a function of kinetic hydrate inhibitor (KHI) concentration. Chemical Engineering Journal, 2020, 388, 124177.	12.7	47
12	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T2) in sandstone rocks. Journal of Petroleum Science and Engineering, 2019, 175, 985-997.	4.2	49
13	Gas hydrate formation probability distributions: Induction times, rates of nucleation and growth. Fuel, 2019, 252, 448-457.	6.4	53
14	Sensitivity of ferromagnetic resonance in PdCo alloyed films to hydrogen gas. International Journal of Hydrogen Energy, 2019, 44, 7715-7724.	7.1	14
15	Hydrate nucleation and growth on water droplets acoustically-levitated in high-pressure natural gas. Physical Chemistry Chemical Physics, 2019, 21, 21685-21688.	2.8	24
16	Impact of Hydrogen Gas on the Inverse Spin Hall Effect in Palladium/Cobalt Bilayer Films. IEEE Magnetism Letters, 2018, 9, 1-4.	1.1	6
17	Gas Hydrate Formation Probability Distributions: The Effect of Shear and Comparisons with Nucleation Theory. Langmuir, 2018, 34, 3186-3196.	3.5	43
18	Adjustable sensitivity for hydrogen gas sensing using perpendicular-to-plane ferromagnetic resonance in Pd/Co Bi-layer films. International Journal of Hydrogen Energy, 2017, 42, 3407-3414.	7.1	25

#	ARTICLE	IF	CITATIONS
19	Reconfigurable magnetic domain wall pinning using vortex-generated magnetic fields. Applied Physics Letters, 2017, 110, 182404.	3.3	4
20	Nanoparticle-Modified Magnetic Vortex Dynamics. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	5
21	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
22	Exchange-mediated, nonlinear, out-of-plane magnetic field dependence of the ferromagnetic vortex gyrotropic mode frequency driven by core deformation. Physical Review B, 2016, 94, .	3.2	7
23	Electrical measurement of magnetic-field-impeded polarity switching of a ferromagnetic vortex core. Physical Review B, 2016, 94, .	3.2	6
24	Resonance-Based Detection of Magnetic Nanoparticles and Microbeads Using Nanopatterned Ferromagnets. Physical Review Applied, 2016, 6, .	3.8	18
25	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
26	Frequency-based nanoparticle sensing over large field ranges using the ferromagnetic resonances of a magnetic nanodisc. Nanotechnology, 2016, 27, 455502.	2.6	8
27	Resonant translational, breathing, and twisting modes of transverse magnetic domain walls pinned at notches. Physical Review B, 2016, 93, .	3.2	11
28	Localized magnetic fields enhance the field sensitivity of the gyrotropic resonance frequency of a magnetic vortex. Physical Review B, 2016, 93, .	3.2	14
29	Nanopatterning-Enhanced Sensitivity and Response Time of Dynamic Palladium/Cobalt/Palladium Hydrogen Gas Sensors. Advanced Materials Technologies, 2016, 1, 1600097.	5.8	33
30	Sensitivity Enhancement of a Pd/Co Bilayer Film for Hydrogen Gas Sensing Using a Perpendicular-to-Plane Ferromagnetic Resonance Configuration. IEEE Transactions on Magnetics, 2016, 52, 1-3.	2.1	12
31	Domain Wall Motion in Nanostructures. Handbook of Surface Science, 2015, 5, 335-370.	0.3	6
32	Sensing magnetic nanoparticles using nano-confined ferromagnetic resonances in a magnonic crystal. Applied Physics Letters, 2015, 106, .	3.3	44
33	Pd/Co bi-layer films for microwave-frequency hydrogen gas sensing applications. , 2014, , .		7
34	Investigation of Cerium-Substituted Europium Iron Garnets Deposited by Biased Target Ion Beam Deposition. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	13
35	Universal magnetic domain wall dynamics in the presence of weak disorder. Comptes Rendus Physique, 2013, 14, 651-666.	0.9	50
36	High domain wall velocities via spin transfer torque using vertical current injection. Scientific Reports, 2013, 3, 1829.	3.3	39

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37	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. Applied Physics Letters, 2013, 103, .	3.3	14
38	Expansion and relaxation of magnetic mirror domains in a Pt/Co/Pt/Co/Pt multilayer with antiferromagnetic interlayer coupling. Journal of Physics Condensed Matter, 2012, 24, 024212.	1.8	9
39	Current-induced resonant depinning of a transverse magnetic domain wall in a spin valve nanostrip. Applied Physics Letters, 2010, 97, .	3.3	7
40	Dynamic Binding of Driven Interfaces in Coupled Ultrathin Ferromagnetic Layers. Physical Review Letters, 2010, 104, 237206.	7.8	36
41	Periodic magnetic domain wall pinning in an ultrathin film with perpendicular anisotropy generated by the stray magnetic field of a ferromagnetic nanodot array. Applied Physics Letters, 2009, 94, .	3.3	22
42	Magnetic domain wall creep in the presence of an effective interlayer coupling field. Journal of Magnetism and Magnetic Materials, 2008, 320, 2571-2575.	2.3	19
43	Domain wall mobility, stability and Walker breakdown in magnetic nanowires. Europhysics Letters, 2007, 78, 57007.	2.0	274
44	Creep and Flow Regimes of Magnetic Domain-Wall Motion in Ultrathin $\frac{\text{Pt}}{\text{Co}}/\frac{\text{Pt}}{\text{Co}}$ with Perpendicular Anisotropy. Physical Review Letters, 2007, 99, 217208.	7.8	510