

Joseph A Dura

List of Publications by Year in descending order

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85
papers

5,667
citations

147566

31
h-index

76769

74
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87
all docs

87
docs citations

87
times ranked

6117
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-background neutron reflectometry from solid/liquid interfaces. <i>Journal of Applied Crystallography</i> , 2022, 55, 58-66.	1.9	2
2	The effect of transverse wavefront width on specular neutron reflection. <i>Journal of Applied Crystallography</i> , 2022, 55, 787-812.	1.9	4
3	Tailoring Electrode-Electrolyte Interfaces in Lithium-Ion Batteries Using Molecularly Engineered Functional Polymers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9919-9931.	4.0	27
4	Quantifying and Suppressing Proton Intercalation to Enable High-Voltage Zn-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2102016.	10.2	48
5	Spatially Resolved Potential and Li-Ion Distributions Reveal Performance-Limiting Regions in Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3944-3951.	8.8	18
6	Layering of magnetic nanoparticles at amorphous magnetic templates with perpendicular anisotropy. <i>Soft Matter</i> , 2020, 16, 7676-7684.	1.2	8
7	Self-Assembly of Magnetic Nanoparticles in Ferrofluids on Different Templates Investigated by Neutron Reflectometry. <i>Nanomaterials</i> , 2020, 10, 1231.	1.9	15
8	Nuclear Spin Incoherent Neutron Scattering from Quantum Well Resonators. <i>Physical Review Letters</i> , 2019, 123, 016101.	2.9	9
9	In Situ Neutron Reflectometry Study of Solid Electrolyte Interface (SEI) Formation on Tungsten Thin-Film Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47553-47563.	4.0	25
10	Enhanced Conductivity via Homopolymer-Rich Pathways in Block Polymer-Blended Electrolytes. <i>Macromolecules</i> , 2019, 52, 9682-9692.	2.2	26
11	Direct, operando observation of the bilayer solid electrolyte interphase structure: Electrolyte reduction on a non-intercalating electrode. <i>Journal of Power Sources</i> , 2019, 412, 725-735.	4.0	29
12	Direct, operando observation of the bilayer solid electrolyte interphase structure: Electrolyte reduction on a non-intercalating electrode. <i>Journal of Power Sources</i> , 2019, 412, .	4.0	2
13	Enhanced Conductivity via Homopolymer-Rich Pathways in Block Polymer-Blended Electrolytes. <i>Macromolecules</i> , 2019, 52, .	2.2	0
14	Quantifying Lithium Salt and Polymer Density Distributions in Nanostructured Ion-Conducting Block Polymers. <i>Macromolecules</i> , 2018, 51, 1917-1926.	2.2	39
15	Highly reversible zinc metal anode for aqueous batteries. <i>Nature Materials</i> , 2018, 17, 543-549.	13.3	2,080
16	Structure-property relationships at Nafion thin-film interfaces: Thickness effects on hydration and anisotropic ion transport. <i>Nano Energy</i> , 2018, 46, 91-100.	8.2	77
17	Unraveling the Complex Hydration Behavior of Ionomers under Thin Film Confinement. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3471-3481.	1.5	15
18	Perovskite nickelates as electric-field sensors in salt water. <i>Nature</i> , 2018, 553, 68-72.	13.7	146

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19	Self-Assembled Layering of Magnetic Nanoparticles in a Ferrofluid on Silicon Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 5050-5060.	4.0	22
20	Nanoconfinement-Induced Phase Segregation of Binary Benzene/Cyclohexane Solutions within a Chemically Inert Matrix. Journal of Physical Chemistry C, 2018, 122, 7676-7684.	1.5	10
21	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. ACS Nano, 2017, 11, 10462-10471.	7.3	283
22	Finite Thickness Effects on Nafion Water Uptake and Ionic Conductivity at Hydrophilic Substrate Interfaces, and Implications for PEMFC Performance. ECS Transactions, 2017, 80, 619-632.	0.3	5
23	Nanolayer Analysis by Neutron Reflectometry. , 2017, , 155-202.		12
24	Extending nanoscale spectroscopy with titanium nitride probes. Journal of Raman Spectroscopy, 2016, 47, 1332-1336.	1.2	5
25	The Center for Research on Extreme Batteries. Electrochemical Society Interface, 2016, 25, 26-29.	0.3	3
26	Tracking Solvent Distribution in Block Polymer Thin Films during Solvent Vapor Annealing with <i>In Situ</i> Neutron Scattering. Macromolecules, 2016, 49, 7525-7534.	2.2	16
27	Structure and Conductivity of Epitaxial Thin Films of In-Doped BaZrO ₃ -Based Proton Conductors. Journal of Physical Chemistry C, 2016, 120, 28415-28422.	1.5	10
28	Neutron Techniques as a Probe of Structure, Dynamics, and Transport in Polyelectrolyte Membranes. Neutron Scattering Applications and Techniques, 2015, , 273-301.	0.2	2
29	Pore collapse and regrowth in silicon electrodes for rechargeable batteries. Physical Chemistry Chemical Physics, 2015, 17, 11301-11312.	1.3	26
30	Self assembly of magnetic nanoparticles at silicon surfaces. Soft Matter, 2015, 11, 4695-4704.	1.2	38
31	Communication: Nanoscale ion fluctuations in Nafion polymer electrolyte. Journal of Chemical Physics, 2014, 141, 071102.	1.2	7
32	Determination of the effective transverse coherence of the neutron wave packet as employed in reflectivity investigations of condensed-matter structures. I. Measurements. Physical Review A, 2014, 89, .	1.0	39
33	Phase segregation of sulfonate groups in Nafion interface lamellae, quantified via neutron reflectometry fitting techniques for multi-layered structures. Soft Matter, 2014, 10, 5763-5776.	1.2	68
34	Surface-Induced Nanostructure and Water Transport of Thin Proton-Conducting Polymer Films. Macromolecules, 2013, 46, 5630-5637.	2.2	41
35	Hydrogen distribution in Nb/Ta superlattices. Journal of Physics Condensed Matter, 2012, 24, 255306.	0.7	5
36	Structural Characterization of the Voltage-Sensor Domain and Voltage-Gated K ⁺ -Channel Proteins Vectorially Oriented within a Single Bilayer Membrane at the Solid/Vapor and Solid/Liquid Interfaces via Neutron Interferometry. Langmuir, 2012, 28, 10504-10520.	1.6	14

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37	Effect of Confinement on Structure, Water Solubility, and Water Transport in Nafion Thin Films. <i>Macromolecules</i> , 2012, 45, 7920-7930.	2.2	172
38	Solid Electrolyte Interphase in Li-Ion Batteries: Evolving Structures Measured In situ by Neutron Reflectometry. <i>Chemistry of Materials</i> , 2012, 24, 2133-2140.	3.2	149
39	In Situ Neutron Techniques for Studying Lithium Ion Batteries. <i>ACS Symposium Series</i> , 2012, , 91-106.	0.5	31
40	Neutron reflectivity study of substrate surface chemistry effects on supported phospholipid bilayer formation on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo}$		

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55	Two-Stage Magnetization Reversal in Exchange Biased Bilayers. <i>Physical Review Letters</i> , 2001, 86, 4394-4397.	2.9	124
56	Magnetic depth profiling Co/Cu multilayers to investigate magnetoresistance (invited). <i>Journal of Applied Physics</i> , 2000, 87, 6639-6643.	1.1	10
57	Polarized neutron reflectivity characterization of weakly coupled Co/Cu multilayers. <i>Physica B: Condensed Matter</i> , 2000, 283, 162-166.	1.3	14
58	First-Principles Determination of Hybrid Bilayer Membrane Structure by Phase-Sensitive Neutron Reflectometry. <i>Biophysical Journal</i> , 2000, 79, 3330-3340.	0.2	71
59	Asymmetric Magnetization Reversal in Exchange-Biased Hysteresis Loops. <i>Physical Review Letters</i> , 2000, 84, 3986-3989.	2.9	310
60	Observation of Antiparallel Magnetic Order in Weakly Coupled Co/Cu Multilayers. <i>Physical Review Letters</i> , 1999, 82, 2796-2799.	2.9	88
61	Neutron and X-ray reflectivity analysis of ceramic-metal materials. <i>Thin Solid Films</i> , 1999, 340, 153-158.	0.8	11
62	Phase determination and inversion in specular neutron reflectometry. <i>Physica B: Condensed Matter</i> , 1998, 248, 338-342.	1.3	48
63	Hybrid Bilayer Membranes in Air and Water: Infrared Spectroscopy and Neutron Reflectivity Studies. <i>Biophysical Journal</i> , 1998, 74, 1388-1398.	0.2	126
64	Neutron reflectometry, x-ray reflectometry, and spectroscopic ellipsometry characterization of thin SiO ₂ on Si. <i>Applied Physics Letters</i> , 1998, 73, 2131-2133.	1.5	41
65	Magnetic Structure of Cr in Exchange Coupled Fe/Cr(001) Superlattices. <i>Physical Review Letters</i> , 1997, 79, 4914-4917.	2.9	113
66	Reversible Tuning of the Magnetic Exchange Coupling in Fe/V (001) Superlattices Using Hydrogen. <i>Physical Review Letters</i> , 1997, 79, 901-904.	2.9	161
67	Diffraction of neutron standing waves in thin films with resonance enhancement. <i>Physica B: Condensed Matter</i> , 1996, 221, 450-454.	1.3	3
68	X-ray reflectivity determination of interface roughness correlated with transport properties of (AlGa)As/GaAs high electron mobility transistor devices. <i>Applied Physics Letters</i> , 1996, 69, 1134-1136.	1.5	12
69	Origins of coercivity increase in annealed symmetric spin valves. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 4636-4638.	1.2	2
70	Photoluminescence spectra of epitaxial single crystal C ₆₀ . <i>Chemical Physics Letters</i> , 1995, 242, 592-597.	1.2	15
71	Grazing-incidence neutron diffraction by thin films with resonance enhancement. <i>Physical Review B</i> , 1995, 52, 17501-17508.	1.1	3
72	Epitaxial growth of Sb/GaSb structures: An example of V/III-V heteroepitaxy. <i>Journal of Applied Physics</i> , 1995, 77, 21-27.	1.1	12

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73	Structural characterization of Nb on sapphire as a buffer layer for MBE growth. Journal of Crystal Growth, 1993, 127, 643-645.	0.7	6
74	Molecular beam epitaxial growth of Sb/GaSb multilayer structures: potential application as a narrow bandgap system. Journal of Crystal Growth, 1993, 127, 777-782.	0.7	3
75	Properties of InAs/(Ga, In)Sb strained layer superlattices grown on the {111} orientations. Journal of Electronic Materials, 1993, 22, 1087-1091.	1.0	1
76	Sb/GaSb heterostructures and multilayers. Applied Physics Letters, 1993, 63, 1098-1100.	1.5	10
77	Epitaxial integration of single crystal C60. Applied Physics Letters, 1993, 63, 3443-3445.	1.5	42
78	Investigation of Sb/GaSb multilayer structures for potential application as an indirect narrow-bandgap material. Semiconductor Science and Technology, 1993, 8, S117-S120.	1.0	18
79	Extraordinary alignment of Nb films with sapphire and the effects of added hydrogen. Physical Review B, 1992, 45, 11426-11429.	1.1	67
80	Structure and defects of MBE grown NbAl ₂ O ₃ interfaces. Acta Metallurgica Et Materialia, 1992, 40, S217-S225.	1.9	62
81	Anomalous lattice expansion of metal-hydrogen thin films. Journal of Materials Research, 1991, 6, 964-968.	1.2	42
82	Electrical-noise measurements on chromium films. Physical Review B, 1991, 44, 7413-7425.	1.1	21
83	Electron microscopy studies of Nb-Al ₂ O ₃ interfaces formed by molecular beam epitaxy. Surface and Coatings Technology, 1990, 43-44, 199-212.	2.2	17
84	Surface-induced heterophase fluctuation. Physical Review Letters, 1990, 65, 2692-2695.	2.9	14
85	A Neutron Reflectivity Study of the Interfacial Magnetism of an Y/Gd Film. Materials Research Society Symposia Proceedings, 1989, 166, 109.	0.1	1