

James L Hart

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,926
citations

361045

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360668

35
g-index

41
all docs

41
docs citations

41
times ranked

2967
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of MXenes™ electronic properties through termination and intercalation. Nature Communications, 2019, 10, 522.	5.8	721
2	Edge Capping of 2D MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. Angewandte Chemie - International Edition, 2019, 58, 12655-12660.	7.2	225
3	Chemically Preintercalated Bilayered $K_{x}V_{2}O_{5} \cdot nH_{2}O$ Nanobelts as a High-Performing Cathode Material for K-Ion Batteries. ACS Energy Letters, 2018, 3, 562-567.	8.8	104
4	Direct Detection Electron Energy-Loss Spectroscopy: A Method to Push the Limits of Resolution and Sensitivity. Scientific Reports, 2017, 7, 8243.	1.6	103
5	Edge Capping of 2D MXene Sheets with Polyanionic Salts To Mitigate Oxidation in Aqueous Colloidal Suspensions. Angewandte Chemie, 2019, 131, 12785-12790.	1.6	78
6	Free Standing Nanoporous Palladium Alloys as CO Poisoning Tolerant Electrocatalysts for the Electrochemical Reduction of CO_{2} to Formate. ACS Catalysis, 2019, 9, 5290-5301.	5.5	78
7	Evidence of a magnetic transition in atomically thin $Cr_{2}TiC_{2}Tx$ MXene. Nanoscale Horizons, 2020, 5, 1557-1565.	4.1	51
8	Vertical geometry 33.2 A, 4.8 MW/cm ² Ga ₂ O ₃ field-plated Schottky rectifier arrays. Applied Physics Letters, 2019, 114, .	1.5	50
9	A percolation theory for designing corrosion-resistant alloys. Nature Materials, 2021, 20, 789-793.	13.3	48
10	Sequential Capacitive Deposition of Ionic Liquids for Conformal Thin Film Coatings on Oxygen Reduction Reaction Electrocatalysts. ACS Catalysis, 2019, 9, 9311-9316.	5.5	42
11	Morphological Instability in Topologically Complex, Three-Dimensional Electrocatalytic Nanostructures. ACS Catalysis, 2017, 7, 7995-8005.	5.5	35
12	Structural transition and recovery of Ge implanted $\hat{\Gamma}^{2}$ -Ga ₂ O ₃ . Applied Physics Letters, 2020, 117, .	1.5	35
13	Electron-beam-induced ferroelectric domain behavior in the transmission electron microscope: Toward deterministic domain patterning. Physical Review B, 2016, 94, .	1.1	26
14	Tracking the evolution of intergranular corrosion through twin-related domains in grain boundary networks. Npj Materials Degradation, 2018, 2, .	2.6	26
15	Functionalization-Induced Self-Assembly of Block Copolymers for Nanoparticle Synthesis. ACS Macro Letters, 2018, 7, 1503-1508.	2.3	26
16	Structural properties of electrodeposited Cu-Ag alloys. Electrochimica Acta, 2017, 251, 475-481.	2.6	25
17	Diffusion of implanted Ge and Sn in $\hat{\Gamma}^{2}$ -Ga ₂ O ₃ . Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, .	0.6	22
18	Multimodal Spectroscopic Study of Surface Termination Evolution in $Cr_{2}TiC_{2}Tx$ MXene. Advanced Materials Interfaces, 2021, 8, 2001789.	1.9	22

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19	Chemical and Physical Characterization of 3D Printer Aerosol Emissions with and without a Filter Attachment. <i>Environmental Science & Technology</i> , 2020, 54, 947-954.	4.6	21
20	Annealing-Assisted Enhancement of Electrochemical Stability of Na-Preintercalated Bilayered Vanadium Oxide Electrodes in Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 1063-1075.	2.5	20
21	RapidEELS: machine learning for denoising and classification in rapid acquisition electron energy loss spectroscopy. <i>Scientific Reports</i> , 2021, 11, 19515.	1.6	20
22	Elucidation of insulin assembly at acidic and neutral pH: Characterization of low molecular weight oligomers. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 2096-2110.	1.5	18
23	Nanoporous metals from thermal decomposition of transition metal dichalcogenides. <i>Acta Materialia</i> , 2020, 184, 79-85.	3.8	17
24	Real-Time Observation of Local Strain Effects on Nonvolatile Ferroelectric Memory Storage Mechanisms. <i>Nano Letters</i> , 2014, 14, 3617-3622.	4.5	15
25	Functionalization-induced self-assembly under ambient conditions via thiol-epoxide "click" chemistry. <i>Polymer Chemistry</i> , 2020, 11, 298-303.	1.9	15
26	Axial Higgs mode detected by quantum pathway interference in RTe ₃ . <i>Nature</i> , 2022, 606, 896-901.	13.7	14
27	Control of hidden ground-state order in NdNiO_3 superlattices. <i>Physical Review Materials</i> , 2017, 1, 010401.	0.9	12
28	Seeing Quantum Materials with Cryogenic Transmission Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 5449-5452.	4.5	11
29	Insight into the kinetic stabilization of Al _{0.3} CoCrFeNi high-entropy alloys. <i>Materialia</i> , 2020, 14, 100872.	1.3	9
30	Mechanistic Insight and Local Structure Evolution of NiPS ₃ upon Electrochemical Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3980-3990.	4.0	9
31	Direct Correlation of MXene Surface Chemistry and Electronic Properties. <i>Microscopy and Microanalysis</i> , 2018, 24, 1606-1607.	0.2	8
32	Thickness-dependent phase transition kinetics in lithium-intercalated MoS ₂ . <i>2D Materials</i> , 2022, 9, 025009.	2.0	8
33	Performance of a Direct Electron Detector for the Application of Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 336-337.	0.2	5
34	Termination-Property Coupling via Reversible Oxygen Functionalization of MXenes. <i>ACS Nanoscience Au</i> , 2022, 2, 433-439.	2.0	5
35	Direct Detection EELS at High Energy: Elemental Mapping and EXELFS. <i>Microscopy and Microanalysis</i> , 2019, 25, 584-585.	0.2	2
36	Toward Deterministic Switching in Ferroelectric Systems: Insight Gained from In Situ TEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 1347-1348.	0.2	0

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37	Electron Beam Induced Domain Motion in Ferroelectric RKTP Observed By Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 271-272.	0.2	0
38	The Perfect Cut: Focused Ion Beam Preparation for In Situ TEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 1403-1404.	0.2	0
39	Application of Electron Counting to Electron Energy-loss Spectroscopy and Implications for Low-Dose Characterization. <i>Microscopy and Microanalysis</i> , 2017, 23, 1796-1797.	0.2	0
40	Direct Detection Electron Energy-loss Spectroscopy: Applications in Low-dose Chemical Mapping and In Situ Heating+biasing. <i>Microscopy and Microanalysis</i> , 2018, 24, 452-453.	0.2	0
41	Intelligent Microscopy: A Path Toward Tailored Materials at the Atomic Scale. <i>Microscopy and Microanalysis</i> , 2021, 27, 962-963.	0.2	0