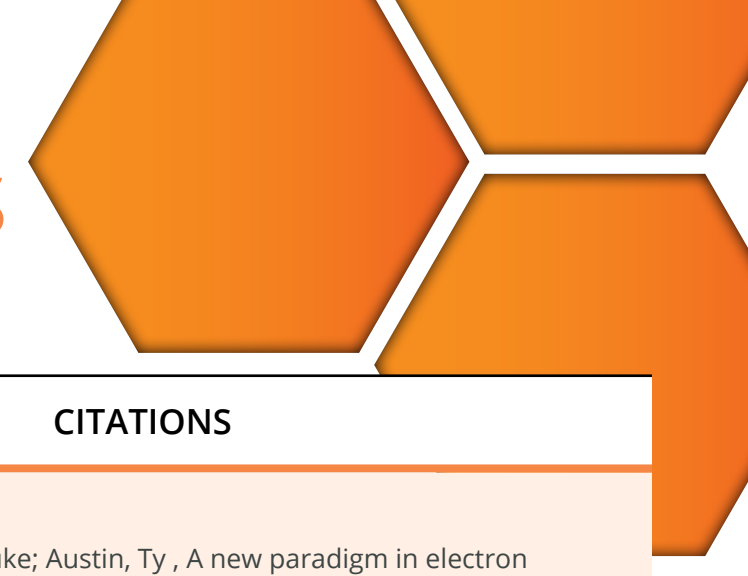


TITLE	WEB LINK	CITATIONS
Directly Probing the Local Coordination, Charge State, and Stability of Single Atom Catalysts by Advanced Electron Microscopy: A Review	https://onlinelibrary.wiley.com/doi/abs/10.1002/sml.202006482	Tieu, Peter; Yan, Xingxu; Xu, Mingjie; Christopher, Phillip; Pan, Xiaoqing , Directly Probing the Local Coordination, Charge State, and Stability of Single Atom Catalysts by Advanced Electron Microscopy: A Review, 2021, Small, 10.1002/sml.202006482
Correlating the dispersion of Li@Mn6 superstructure units with the oxygen activation in Li-rich layered cathode	https://www.sciencedirect.com/science/article/pii/S240582972100578X	Li, Yiwei; Xu, Shenyang; Zhao, Wenguang; Chen, Zhefeng; Chen, Zhaoxi; Li, Shunning; Hu, Jiangtao; Cao, Bo; Li, Jianyuan; Zheng, Shisheng; Chen, Ziwei; Zhang, Taolue; Zhang, Mingjian; Pan, Feng , Correlating the dispersion of Li@Mn6 superstructure units with the oxygen activation in Li-rich layered cathode, 2022, Energy Storage Materials, 10.1016/j.ensm.2021.12.003
Decoupled alpha and beta relaxation kinetics in a thermally cycled bulk Pd40Ni40P20 glass	https://linkinghub.elsevier.com/retrieve/pii/S0925838822017777	Stringe, Mark; Spangenberg, Katharina; da Silva Pinto, Manoel Wilker; Peterlechner, Martin; Wilde, Gerhard , Decoupled alpha and beta relaxation kinetics in a thermally cycled bulk Pd40Ni40P20 glass, 2022, Journal of Alloys and Compounds, 10.1016/j.jallcom.2022.165386
Real-time, On-Microscope Automated Quantification of Features in Microcopy Experiments Using Machine Learning and Edge Computing	https://www.cambridge.org/core/product/identifier/S1431927622007929/type/journal_article	Field, Kevin G.; Patki, Priyam; Sharaf, Nasir; Sun, Kai; Hawkins, Laura; Lynch, Matthew; Jacobs, Ryan; Morgan, Dane D.; He, Lingfeng; Field, Christopher R. , Real-time, On-Microscope Automated Quantification of Features in Microcopy Experiments Using Machine Learning and Edge Computing, 2022, Microscopy and Microanalysis, 10.1017/S1431927622007929
Liquid-EM goes viral – visualizing structure and dynamics	https://linkinghub.elsevier.com/retrieve/pii/S0959440X22001051	Kelly, Deborah F.; DiCecco, Liza-Anastasia; Jonaid, G.M.; Dearnaley, William J.; Spilman, Michael S.; Gray, Jennifer L.; Dressel-Dukes, Madeline J. , Liquid-EM goes viral – visualizing structure and dynamics, 2022, Current Opinion in Structural Biology, 10.1016/j.sbi.2022.102426
AXON Dose: A Solution for Measuring and Managing Electron Dose in the TEM	https://www.cambridge.org/core/product/identifier/S1551929522000840/type/journal_article	Damiano, John; Walden, Stamp; Franks, Alan; Marusak, Kate; Larson, Ben; Coy, Mike; Nackashi, David , AXON Dose: A Solution for Measuring and Managing Electron Dose in the TEM, 2022, Microscopy Today, 10.1017/S1551929522000840
Environment-Dependent Structural Evolution and Electrocatalytic Performance in N2 Reduction of Mo-Based ZIF-8	https://pubs.acs.org/doi/10.1021/acsanm.3c01669	Hsiao, Kai-Yuan; Tseng, Yu-Han; Chiang, Chao-Lung; Chen, Yan-De; Lin, Yan-Gu; Lu, Ming-Yen , Environment-Dependent Structural Evolution and Electrocatalytic Performance in N2 Reduction of Mo-Based ZIF-8, 2023, ACS Applied Nano Materials, 10.1021/acsanm.3c01669
Formation mechanism of high-index faceted Pt-Bi alloy nanoparticles by evaporation-induced growth from metal salts	https://www.nature.com/articles/s41467-023-39458-6	Koo, Kunmo; Shen, Bo; Baik, Sung-Il; Mao, Zungang; Smeets, Paul J. M.; Cheuk, Ivan; He, Kun; Dos Reis, Roberto; Huang, Liliang; Ye, Zihao; Hu, Xiaobing; Mirkin, Chad A.; Dravid, Vinayak P. , Formation mechanism of high-index faceted Pt-Bi alloy nanoparticles by evaporation-induced growth from metal salts, 2023, Nature Communications, 10.1038/s41467-023-39458-6
Confinement Effects on the Structure of Entropy-Induced Supercrystals	https://onlinelibrary.wiley.com/doi/10.1002/sml.202303380	Goldmann, Claire; Chaâbani, Wajdi; Hotton, Claire; Impéror-Clerc, Marianne; Moncomble, Adrien; Constantin, Doru; Alloyeau, Damien; Hamon, Cyrille , Confinement Effects on the Structure of Entropy-Induced Supercrystals, 2023, Small, 10.1002/sml.202303380
A Machine-Vision Approach to Transmission Electron Microscopy Workflows, Results Analysis and Data Management	https://www.jove.com/t/65446/a-machine-vision-approach-to-transmission-electron-microscopy	Dukes, Madeline Dressel; Krans, Nynke Albertine; Marusak, Katherine; Walden, Stamp; Eldred, Tim; Franks, Alan; Larson, Ben; Guo, Yaofeng; Nackashi, David; Damiano, John , A Machine-Vision Approach to Transmission Electron Microscopy Workflows, Results Analysis and Data Management, 2023, Journal of Visualized Experiments, 10.3791/65446
Shedding Light on the Birth of Hybrid Perovskites: A Correlative Study by In Situ Electron Microscopy and Synchrotron-Based X-ray Scattering	https://pubs.acs.org/doi/10.1021/acs.chemmater.3c01167	Sidhoum, Charles; Constantin, Doru; Ihiwakrim, Dris; Lenertz, Marc; Bizien, Thomas; Sanchez, Clément; Ersen, Ovidiu , Shedding Light on the Birth of Hybrid Perovskites: A Correlative Study by In Situ Electron Microscopy and Synchrotron-Based X-ray Scattering, 2023, Chemistry of Materials, 10.1021/acs.chemmater.3c01167
Challenges of Electron Correlation Microscopy on Amorphous Silicon and Amorphous Germanium	https://academic.oup.com/mam/article/29/5/1579/7252196	Radić, Dražen; Peterlechner, Martin; Spangenberg, Katharina; Posselt, Matthias; Bracht, Hartmut , Challenges of Electron Correlation Microscopy on Amorphous Silicon and Amorphous Germanium, 2023, Microscopy and Microanalysis, 10.1093/micmic/ozad090
Automated Grain Boundary Detection for Bright-Field Transmission Electron Microscopy Images via U-Net	https://academic.oup.com/mam/advance-article/doi/10.1093/micmic/ozad115/7422794	Patrick, Matthew J; Eckstein, James K; Lopez, Javier R; Toderas, Silvia; Asher, Sarah A; Whang, Sylvia I; Levine, Stacey; Rickman, Jeffrey M; Barmak, Katayun , Automated Grain Boundary Detection for Bright-Field Transmission Electron Microscopy Images via U-Net, 2023, Microscopy and Microanalysis, https://doi.org/10.1093/micmic/ozad115
In situ TEM studies of relaxation dynamics and crystal nucleation in thin film nanoglasses	https://doi.org/10.1080/21663831.2023.2278597	Voigt, Hendrik; Rigoni, Aaron; Boltynjuk, Evgeniy; Rösner, Harald; Hahn, Horst; Wilde, Gerhard , In situ TEM studies of relaxation dynamics and crystal nucleation in thin film nanoglasses, 2023, Materials Research Letters, 10.1080/21663831.2023.2278597



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<p>A new paradigm in electron microscopy: Automated microstructure analysis utilizing a dynamic segmentation convolutional neural network</p>	<p>https://linkinghub.elsevier.com/retrieve/pii/S2590049824000055</p>	<p>Taller, Stephen; Scime, Luke; Austin, Ty . A new paradigm in electron microscopy: Automated microstructure analysis utilizing a dynamic segmentation convolutional neural network, 2024, Materials Today Advances, 10.1016/j.mtadv.2024.100468</p>
<p>Ingenious Architecture and Coloration Generation in Enamel of Rodent Teeth</p>	<p>https://pubs.acs.org/doi/10.1021/acsnano.4c00578</p>	<p>Srot, Vesna; Houari, Sophia; Kapun, Gregor; Bussmann, Birgit; Predel, Felicitas; Pokorny, Boštjan; Bužan, Elena; Salzberger, Ute; Fenk, Bernhard; Kelsch, Marion; Van Aken, Peter A. , Ingenious Architecture and Coloration Generation in Enamel of Rodent Teeth, 2024, ACS Nano, 10.1021/acsnano.4c00578</p>