Thomas F Lam

List of Publications by Year
in descending order

36 papers	502 citations	758635 12 h-index	676716 22 g-index
39 all docs	39 docs citations	39 times ranked	999 citing authors

#	Article	IF	Citations
1	Methods to assess the impact of UV irradiation on the surface chemistry and structure of multiwall carbon nanotube epoxy nanocomposites. Carbon, 2014, 69, 194-205.	5.4	105
2	The Evolution of Carbon Nanotube Network Structure in Unidirectional Nanocomposites Resolved by Quantitative Electron Tomography. ACS Nano, 2015, 9, 6050-6058.	7.3	62
3	Phase Equilibria in Synthetic Coalâ€“Petcoke Slags (Al₂O₃â€“CaOâ€“FeOâ€“SiO₂â€“V₂O₃) under Simulated Gasification Conditions. Energy & Fuels, 2011, 25, 3298-3306.	2.5	44
4	Dielectric Characterization by Microwave Cavity Perturbation Corrected for Nonuniform Fields. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2149-2159.	2.9	43
5	Impact of UV irradiation on multiwall carbon nanotubes in nanocomposites: Formation of entangled surface layer and mechanisms of release resistance. Carbon, 2017, 116, 191-200.	5.4	43
6	Selfâ€Assembled Peptideâ€“Polyfluorene Nanocomposites for Biodegradable Organic Electronics. Advanced Materials Interfaces, 2015, 2, 1500265.	1.9	35
7	Nitrogen-doped carbon-TiO 2 composite as support of Pd electrocatalyst for formic acid oxidation. Journal of Power Sources, 2015, 284, 186-193.	4.0	35
8	Rapid Large-Scale Assembly and Pattern Transfer of One-Dimensional Gold Nanorod Superstructures. ACS Applied Materials & Interfaces, 2017, 9, 25513-25521.	4.0	27
9	3D TEM Tomography of Templated Bilayer Films of Block Copolymers. Advanced Functional Materials, 2014, 24, 7689-7697.	7.8	22
10	Miniature all-solid-state heterostructure nanowire Li-ion batteries as a tool for engineering and structural diagnostics of nanoscale electrochemical processes. Nanoscale, 2014, 6, 11756-11768.	2.8	19
11	Characterization of Zinc Carboxylates in an Oil Paint Test Panel. Studies in Conservation, 2020, 65, 14-27.	0.6	15
12	Giant Surface Conductivity Enhancement in a Carbon Nanotube Composite by Ultraviolet Light Exposure. ACS Applied Materials & Interfaces, 2016, 8, 23230-23235.	4.0	13
13	Three dimensional cluster distributions in processed multi-wall carbon nanotube polymer composites. Polymer, 2014, 55, 3270-3277.	1.8	9
14	Harden up: metal acquisition in the weaponized ovipositors of aculeate hymenoptera. Zoomorphology, 2018, 137, 389-406.	0.4	9
15	An easy-to-use method for preparing paint cross sections. Journal of the American Institute for Conservation, 2019, 58, 123-131.	0.2	5
16	Major to trace element imaging and analysis of iron age glasses using stage scanning in the analytical dual beam microscope (tandem). Heritage Science, 2022, 10, .	1.0	3
17	Compositional Imaging and Analysis of Late Iron Age Glass from the Broborg Vitrified Hillfort, Sweden. Microscopy and Microanalysis, 2018, 24, 2134-2135.	0.2	2
18	A dual beam SEM-based EDS and micro-XRF method for the analysis of large-scale Mesoamerican obsidian tablets. Journal of Archaeological Science: Reports, 2021, 35, 102781.	0.2	2

#	Article	IF	Citations
19	EFTEM Study of a Carbon Nanostructure Composite. Microscopy and Microanalysis, 2012, 18, 1530-1531.	0.2	1
20	Multimode STEM Imaging and Tomography of Radial Heterostructure Nanowire Li-Ion Mini-Batteries. Microscopy and Microanalysis, 2014, 20, 426-427.	0.2	1
21	Determination of Major, Minor, and Trace Elements in Jadeite using Scanning micro-X-ray Fluorescence. Microscopy and Microanalysis, 2017, 23, 1008-1009.	0.2	1
22	Characterization of Zinc Soap from an Accelerated Aged Oil Painting Test Panel. Microscopy and Microanalysis, 2018, 24, 2158-2159.	0.2	1
23	Microscopic Identification of Micro-Organisms on Pre-Viking Swedish Hillfort Glass. Microscopy and Microanalysis, 2018, 24, 2136-2137.	0.2	1
24	Microanalysis of Glass Fluid Storage Vials from The Invertebrate Zoology Collection at the National Museum of Natural History. Microscopy and Microanalysis, 2021, 27, 3208-3210.	0.2	1
25	Quantitative Analysis of Obsidian and Determination of Source Provenance Using an Analytical Dual Beam SEM. Microscopy and Microanalysis, 2021, 27, 2560-2563.	0.2	1
26	Nondestructive Microanalysis of Thin-Film Coatings on Historic Metal Threads. Analytical Chemistry, 2021, 93, 12906-12913.	3.2	1
27	Observations from the Analysis of the Gelatin Silver Emulsion Layer of Glass Photographic Inter-Positive Plates from Eadweard Muybridgeâ€™s Animal Locomotion Series at the National Museum of American History. Journal of the American Institute for Conservation, 2022, 61, 237-253.	0.2	1
28	Spectroscopic Investigations of the Structure of Graphitic Carbon Nitrides for H2 Storage. Microscopy and Microanalysis, 2016, 22, 1668-1669.	0.2	0
29	Microfadeometry of Face-Mounted and Unmounted Chromogenic Photographs. Microscopy and Microanalysis, 2018, 24, 2144-2145.	0.2	0
30	Microfadeometry of Miss Breme Jones Watercolor with Iron-gall Ink Inscriptions. Microscopy and Microanalysis, 2018, 24, 2170-2171.	0.2	0
31	Photoluminescence Spectroscopy of ZnO and TiCh Pigments. Microscopy and Microanalysis, 2018, 24, 2150-2151.	0.2	0
32	Examination of Heritage and Geological Materials Using Correlated Electron- and X-ray-Beam Microanalysis in the SEM. Microscopy and Microanalysis, 2019, 25, 2482-2483.	0.2	0
33	Preserving the Legacy of an Artist and Conservator: Technical Study of Paintings by Felrath Hines in the Collection of the National Museum of African American History and Culture. Journal of the American Institute for Conservation, 2021, 60, 32-49.	0.2	0
34	Case Study of SEM-EDS Cross-Sections to Assist in Understanding p-XRF Results from William H. Johnson Paintings. Microscopy and Microanalysis, 2021, 27, 3204-3206.	0.2	0
35	Elemental Mapping of Jade by pXRF and SEM-based Micro-XRF: A Comparative Study. Microscopy and Microanalysis, 2021, 27, 2556-2558.	0.2	0
36	Comparison of quantification from field deployable pXRF and laboratory based-micro-XRF within an SEM of Cu-based alloys. Microscopy and Microanalysis, 2021, 27, 3200-3202.	0.2	0