

# Fumihiko Uesugi

## List of Publications by Year in descending order

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17  
papers

159  
citations

1163117

8  
h-index

1125743

13  
g-index

17  
all docs

17  
docs citations

17  
times ranked

209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of structural quality of AlN layers grown on c-plane sapphire substrate by metal-organic vapor phase epitaxy using post-growth annealing with trimethylgallium. AIP Advances, 2022, 12, 015203.	1.3	0
2	Classification for transmission electron microscope images from different amorphous states using persistent homology. Microscopy (Oxford, England), 2022, , .	1.5	1
3	Non-negative matrix factorization for mining big data obtained using four-dimensional scanning transmission electron microscopy. Ultramicroscopy, 2021, 221, 113168.	1.9	15
4	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration. Science, 2021, 374, 1616-1620.	12.6	32
5	Electrical conduction and field emission of a single-crystalline Gd <sub>44</sub> Si <sub>2</sub> nanowire. Nanoscale, 2020, 12, 18263-18268.	5.6	1
6	A HfC nanowire point electron source with oxycarbide surface of lower work function for high-brightness and stable field-emission. Nano Research, 2020, 13, 1620-1626.	10.4	17
7	A controllable and efficient method for the fabrication of a single HfC nanowire field-emission point electron source aided by low keV FIB milling. Nanoscale, 2020, 12, 16770-16774.	5.6	12
8	Objective and Rapid Crystal Structure Analysis by Integration of Measurement Informatics and Database. Nihon Kessho Gakkaishi, 2020, 62, 35-42.	0.0	0
9	Accurate determination of strains at layered materials by selected area electron diffraction mapping. Japanese Journal of Applied Physics, 2019, 58, S11A03.	1.5	1
10	Novel electron microscopy method for accurate measurements of the lattice constant changes in layered structures. Journal of Surface Analysis (Online), 2019, 26, 190-191.	0.1	0
11	Two-dimensional Gaussian fitting for precise measurement of lattice constant deviation from a selected-area diffraction map. Microscopy (Oxford, England), 2018, 67, i142-i149.	1.5	6
12	Chirality transitions and transport properties of individual few-walled carbon nanotubes as revealed by in situ TEM probing. Ultramicroscopy, 2018, 194, 108-116.	1.9	9
13	Real-space analysis of diffusion behavior and activation energy of individual monatomic ions in a liquid. Science Advances, 2017, 3, e1701546.	10.3	14
14	Structural variation of Li <sub>2</sub> MnO <sub>3</sub> during charge&ndash;discharge cycling. Journal of the Ceramic Society of Japan, 2015, 123, 589-594.	1.1	7
15	Metamorphic GaAs/GaAsBi Heterostructured Nanowires. Nano Letters, 2015, 15, 7265-7272.	9.1	27
16	Strain mapping in selected area electron diffraction method combining a Cs-corrected TEM with a stage scanning system. Ultramicroscopy, 2013, 135, 80-83.	1.9	12
17	Distortion Measurement of Multi-Finger Transistor Using Split Higher-Order Laue Zone Lines Analysis. Japanese Journal of Applied Physics, 2008, 47, 3709-3711.	1.5	5