List of Publications by Year in descending order

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Δνει Γιιργ

#	Article	IF	CITATIONS
1	Unveiling the three-dimensional magnetic texture of skyrmion tubes. Nature Nanotechnology, 2022, 17, 250-255.	31.5	45
2	Observation of fractional spin textures in a Heusler material. Nature Communications, 2022, 13, 2348.	12.8	9
3	Tailoring electron beams with high-frequency self-assembled magnetic charged particle micro optics. Nature Communications, 2022, 13, .	12.8	6
4	Exploiting Combinatorics to Investigate Plasmonic Properties in Heterogeneous AgAu Nanosphere Chain Assemblies. Advanced Optical Materials, 2021, 9, 2001983.	7.3	14
5	Vacuum processed large area doped thin-film crystals: A new approach for high-performance organic electronics. Materials Today Physics, 2021, 17, 100352.	6.0	15
6	Extraction of physically meaningful endmembers from STEM spectrum-images combining geometrical and statistical approaches. Micron, 2021, 145, 103068.	2.2	4
7	Hard x-ray photoemission spectroscopy of LaVO3/SrTiO3 : Band alignment and electronic reconstruction. Physical Review B, 2021, 103, .	3.2	4
8	Magnetism and phonons in transmission electron microscopy. Microscopy and Microanalysis, 2021, 27, 114-116.	0.4	0
9	Correcting STEM distortions in atomically resolved elemental maps. Microscopy and Microanalysis, 2021, 27, 596-598.	0.4	0
10	Correction for linear and non-linear distortions of STEM images. Microscopy and Microanalysis, 2021, 27, 2320-2322.	0.4	0
11	Layered van der Waals Topological Metals of TaTMTe4 (TM = Ir, Rh, Ru) Family. Journal of Physical Chemistry Letters, 2021, 12, 6730-6735.	4.6	8
12	Off-axis Electron Holography on 2D Materials with Small Coherent and Incoherent Aberrations. Microscopy and Microanalysis, 2021, 27, 128-129.	0.4	0
13	Nanoparticle Chains for Plasmonic Band Engineering. Microscopy and Microanalysis, 2021, 27, 880-882.	0.4	0
14	A Hamiltonian mechanics framework for charge particle optics in straight and curved systems. Optik, 2021, 242, 167242.	2.9	1
15	Axion Mie theory of electron energy loss spectroscopy in topological insulators. SciPost Physics Core, 2021, 4, .	2.8	3
16	Tailoring Plasmonics of Au@Ag Nanoparticles by Silica Encapsulation. Advanced Optical Materials, 2021, 9, 2101221.	7.3	5
17	Exploring the 3D structure and defects of a self-assembled gold mesocrystal by coherent X-ray diffraction imaging. Nanoscale, 2021, 13, 10425-10435.	5.6	8
18	Morphogenesis of Magnetite Mesocrystals: Interplay between Nanoparticle Morphology and Solvation Shell. Chemistry of Materials, 2021, 33, 9119-9130.	6.7	11

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19	2D and 3D Electron Holography Revealing Complex Magnetic Configurations in CoNi Nanowires. Microscopy and Microanalysis, 2020, 26, 1544-1545.	0.4	1
20	Electronic structure of epitaxial perovskite films in the two-dimensional limit: Role of the surface termination. Applied Physics Letters, 2020, 116, 201601.	3.3	2
21	Additive-controlled synthesis of monodisperse single crystalline gold nanoparticles: interplay of shape and surface plasmon resonance. Journal of Materials Chemistry C, 2020, 8, 10844-10851.	5.5	21
22	Autocorrected off-axis holography of two-dimensional materials. Physical Review Research, 2020, 2, .	3.6	5
23	Inelastic Momentum Transfer Measurements on Plasmonic Structures in the (S)TEM. Microscopy and Microanalysis, 2019, 25, 632-633.	0.4	1
24	Holographic vector field electron tomography of three-dimensional nanomagnets. Communications Physics, 2019, 2, .	5.3	45
25	Optimal principal component analysis of STEM XEDS spectrum images. Advanced Structural and Chemical Imaging, 2019, 5, 4.	4.0	26
26	Magnetic Nanoparticle Chains in Gelatin Ferrogels: Bioinspiration from Magnetotactic Bacteria. Advanced Functional Materials, 2019, 29, 1905996.	14.9	23
27	Chromium Trihalides Cr <i>X</i> ₃ (<i>X</i> = Cl, Br, l): Direct Deposition of Micro―and Nanosheets on Substrates by Chemical Vapor Transport. Advanced Materials Interfaces, 2019, 6, 1901410.	3.7	37
28	Direct Observation of Plasmon Band Formation and Delocalization in Quasi-Infinite Nanoparticle Chains. Nano Letters, 2019, 19, 3854-3862.	9.1	32
29	Three-Dimensional Imaging of Beam-Induced Biasing of InP/GaInP Tunnel Diodes. Nano Letters, 2019, 19, 3490-3497.	9.1	4
30	Chemical Aspects of the Candidate Antiferromagnetic Topological Insulator MnBi ₂ Te ₄ . Chemistry of Materials, 2019, 31, 2795-2806.	6.7	203
31	The Dresden in-situ (S)TEM special with a continuous-flow liquid-helium cryostat. Ultramicroscopy, 2019, 203, 12-20.	1.9	1
32	Domain matching epitaxy of BaBiO3 on SrTiO3 with structurally modified interface. Applied Physics Letters, 2018, 112, 141601.	3.3	17
33	Nanomorphology Effects in Semiconductors with Native Ferromagnetism: Hierarchical Europium (II) Oxide Tubes Prepared via a Topotactic Nanostructure Transition. Advanced Materials, 2018, 30, 1703612.	21.0	9
34	Magnetic Configurations in Three-Dimensional Nanomagnets Explored by Electron Holographic Tomography. Microscopy and Microanalysis, 2018, 24, 914-915.	0.4	1
35	Cryogenic TEM Studies of Bloch and Neel Skyrmion Textures in Lacunar Spinels and Cubic Helimagnets. Microscopy and Microanalysis, 2018, 24, 946-947.	0.4	1
36	Spectral field mapping in plasmonic nanostructures with nanometer resolution. Nature Communications, 2018, 9, 4207.	12.8	21

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37	Chemical vapor growth and delamination of α-RuCl ₃ nanosheets down to the monolayer limit. Nanoscale, 2018, 10, 19014-19022.	5.6	36
38	Induction Mapping of the 3D-Modulated Spin Texture of Skyrmions in Thin Helimagnets. Physical Review Letters, 2018, 120, 217201.	7.8	26
39	Fe1-xNix Alloy Nanoparticles Encapsulated Inside Carbon Nanotubes: Controlled Synthesis, Structure and Magnetic Properties. Nanomaterials, 2018, 8, 576.	4.1	6
40	Three-Dimensional Composition and Electric Potential Mapping of III–∨ Core–Multishell Nanowires by Correlative STEM and Holographic Tomography. Nano Letters, 2018, 18, 4777-4784.	9.1	27
41	A Novel Method for Automatic Determination of the Number of Meaningful Components in the PCA Analysis of Spectrum-Images. Microscopy and Microanalysis, 2018, 24, 572-573.	0.4	1
42	Surface Plasmon Modes in Long Chains of Au Nanoparticles. Microscopy and Microanalysis, 2018, 24, 1748-1749.	0.4	0
43	Towards Induction Mapping of the 3D Spin Texture of Skyrmions. Microscopy and Microanalysis, 2018, 24, 930-931.	0.4	1
44	Holography and Tomography with Electrons. Advances in Imaging and Electron Physics, 2018, 206, 1-14.	0.2	8
45	Electron Optics in Phase Space. Advances in Imaging and Electron Physics, 2018, 206, 105-140.	0.2	1
46	Electron Holographic Tomography. Advances in Imaging and Electron Physics, 2018, 206, 231-299.	0.2	1
47	Paraxial Quantum Mechanics. Advances in Imaging and Electron Physics, 2018, 206, 15-58.	0.2	5
48	Tomography. Advances in Imaging and Electron Physics, 2018, 206, 59-104.	0.2	0
49	Three-dimensional Induction Mapping of Magnetic Nanoscale Materials by Electron Holographic Tomography. Microscopy and Microanalysis, 2016, 22, 1690-1691.	0.4	1
50	Quantitative determination of elastic and inelastic attenuation coefficients by off-axis electron holography. Ultramicroscopy, 2016, 171, 26-33.	1.9	9
51	Fundamentals of Focal Series Inline Electron Holography. Advances in Imaging and Electron Physics, 2016, 197, 105-147.	0.2	3
52	3D mapping of nanoscale electric potentials in semiconductor structures using electron-holographic tomography. Journal Physics D: Applied Physics, 2016, 49, 364004.	2.8	8
53	Spiral phase plate contrast in optical and electron microscopy. Physical Review A, 2016, 94, .	2.5	13
54	Elastic Scattering of Electron Vortex Beams in Magnetic Matter. Physical Review Letters, 2016, 116, 127203.	7.8	44

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55	Synthesis and Three-Dimensional Magnetic Field Mapping of Co ₂ FeGa Heusler Nanowires at 5 nm Resolution. Nano Letters, 2016, 16, 114-120.	9.1	39
56	Phase-space foundations of electron holography. Physical Review A, 2015, 92, .	2.5	17
57	Electron Microscopy of Probability Currents at Atomic Resolution. Physical Review Letters, 2015, 115, 176101.	7.8	17
58	A Phase Space Perspective on Electron Holography - Building Bridges Between Inline-, Off-axis Holography, Differential Phase Contrast and Diffractive Imaging. Microscopy and Microanalysis, 2015, 21, 2307-2308.	0.4	1
59	Spin-Multislice Applied to the Electron Spin Interaction with Materials. Microscopy and Microanalysis, 2015, 21, 1961-1962.	0.4	0
60	A proposal for the holographic correction of incoherent aberrations by tilted reference waves. Ultramicroscopy, 2015, 152, 63-74.	1.9	6
61	Differential phase contrast: An integral perspective. Physical Review A, 2015, 91, .	2.5	67
62	Semiclassical TEM image formation in phase space. Ultramicroscopy, 2015, 151, 136-149.	1.9	8
63	3D Magnetic Induction Maps of Nanoscale Materials Revealed by Electron Holographic Tomography. Chemistry of Materials, 2015, 27, 6771-6778.	6.7	64
64	Prospects of linear reconstruction in atomic resolution electron holographic tomography. Ultramicroscopy, 2015, 150, 65-70.	1.9	4
65	Transfer and reconstruction of the density matrix in off-axis electron holography. Ultramicroscopy, 2014, 146, 103-116.	1.9	21
66	Nanoscale three-dimensional reconstruction of elastic and inelastic mean free path lengths by electron holographic tomography. Applied Physics Letters, 2014, 105, .	3.3	13
67	Nanometer-scale tomographic reconstruction of three-dimensional electrostatic potentials in GaAs/AlGaAs core-shell nanowires. Physical Review B, 2014, 90, .	3.2	28
68	Nanoscale three-dimensional reconstruction of electric and magnetic stray fields around nanowires. Applied Physics Letters, 2014, 105, .	3.3	20
69	Weighted simultaneous iterative reconstruction technique for single-axis tomography. Ultramicroscopy, 2014, 136, 15-25.	1.9	61
70	Dynamic scattering theory for dark-field electron holography of 3D strain fields. Ultramicroscopy, 2014, 136, 42-49.	1.9	31
71	Dynamical effects in strain measurements by dark-field electron holography. Ultramicroscopy, 2014, 147, 70-85.	1.9	19
72	Noise estimation for off-axis electron holography. Ultramicroscopy, 2014, 144, 32-42.	1.9	31

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73	Electron Holographic Tomography of Mean Free Path Lengths at the nm-scale. Microscopy and Microanalysis, 2014, 20, 270-271.	0.4	1
74	Local Strain Measurements at Dislocations, Disclinations and Domain Boundaries. Microscopy and Microanalysis, 2014, 20, 1044-1045.	0.4	0
75	Electron holography: state and prospects. Microscopy and Microanalysis, 2014, 20, 244-245.	0.4	1
76	Transport of Intensity Phase Retrieval of Arbitrary Wave Fields Including Vortices. Physical Review Letters, 2013, 111, 173902.	7.8	44
77	Electron holography for fields in solids: Problems and progress. Ultramicroscopy, 2013, 134, 126-134.	1.9	36
78	Electron holographic tomography. Current Opinion in Solid State and Materials Science, 2013, 17, 126-134.	11.5	50
79	Topological analysis of paraxially scattered electron vortex beams. Physical Review A, 2013, 87, .	2.5	33
80	Electromechanical Coupling among Edge Dislocations, Domain Walls, and Nanodomains in BiFeO ₃ Revealed by Unit-Cell-Wise Strain and Polarization Maps. Nano Letters, 2013, 13, 1410-1415.	9.1	76
81	Tomographic investigation of fermi level pinning at focused ion beam milled semiconductor surfaces. Applied Physics Letters, 2013, 103, .	3.3	23
82	Retroâ€fitting an older (S)TEM with two <i>C_s</i> aberration correctors for 80 kV and 60 kV operation. Journal of Microscopy, 2013, 249, 87-92.	1.8	18
83	Progress in electrons vortex creation and application in a transmission electron microscope. Microscopy and Microanalysis, 2013, 19, 1164-1165.	0.4	1
84	Transport of Intensity Phase Reconstruction Revisited. Microscopy and Microanalysis, 2013, 19, 1378-1379.	0.4	1
85	Dynamic scattering theory for dark-field electron holography of 3D strain fields. Microscopy and Microanalysis, 2013, 19, 1392-1393.	0.4	2
86	Electron Holography at Low Voltages Exemplified by Graphene. Microscopy and Microanalysis, 2013, 19, 1384-1385.	0.4	0
87	Ferroelectric effects in individual BaTiO <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:mrow </mml:msub>nanocrystals investigated by electron holography. Physical Review B, 2012, 85</mml:math 	3.2	18
88	A new linear transfer theory and characterization method for image detectors. Part II: Experiment. Ultramicroscopy, 2012, 115, 78-87.	1.9	22
89	A new linear transfer theory and characterization method for image detectors. Part I: Theory. Ultramicroscopy, 2012, 115, 68-77.	1.9	19
90	Flexoelectric rotation of polarization in ferroelectric thin films. Nature Materials, 2011, 10, 963-967.	27.5	503

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91	Atomic Resolution Analysis of Silver Ionâ€Exchanged Zeoliteâ€A. Angewandte Chemie - International Edition, 2011, 50, 11230-11233.	13.8	83
92	Mapping Intrinsic Electric Fields Through Off-Axis Electron Holography: Prospects and Problems. Microscopy and Microanalysis, 2010, 16, 582-583.	0.4	0
93	Off-axis and inline electron holography: Experimental comparison. Ultramicroscopy, 2010, 110, 472-482.	1.9	59
94	Coherent and incoherent effects on the imaging and scattering process in transmission electron microscopy and off-axis electron holography. Ultramicroscopy, 2010, 110, 1397-1403.	1.9	4
95	The effect of dynamical scattering in off-axis holographic mean inner potential and inelastic mean free path measurements. Ultramicroscopy, 2010, 110, 438-446.	1.9	38
96	altimg="si0055.gif" overflow="scroll"> <mml:msub><mml:mrow><mml:mi>In</mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mn>2mathvariant="normal">O</mml:mn></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow>stretchy="false">(<mml:mi>ZnO</mml:mi><mml:msub><mml:mrow><mml:mrow></mml:mrow></mml:mrow></mml:msub></mml:mrow><td>ll:mŋ>>><mml:m)verlock 10</mml:m </td><td>ml;mrow>10 2 Tf 50 522 T</td></mml:msub>	ll:mŋ>>> <mml:m)verlock 10</mml:m 	ml;mrow>10 2 Tf 50 522 T
97	Towards automated electron holographic tomography for 3D mapping of electrostatic potentials. Ultramicroscopy, 2010, 110, 390-399.	1.9	57
98	Off-axis and inline electron holography: A quantitative comparison. Ultramicroscopy, 2010, 110, 460-471.	1.9	63
99	First-principles study of ferroelectric domain walls in multiferroic bismuth ferrite. Physical Review B, 2009, 80, .	3.2	236