Mathieu Kociak

List of Publications by Year
in descending order

201 papers	9,972 citations	36303 51 h-index	36028 97 g-index
216 all docs	216 docs citations	216 times ranked	9466 citing authors

#	Article	IF	Citations
1	Mapping surface plasmons on a single metallic nanoparticle. Nature Physics, 2007, 3, 348-353.	16.7	908
2	Proximity-Induced Superconductivity in DNA. Science, 2001, 291, 280-282.	12.6	648
3	Zeptomol Detection Through Controlled Ultrasensitive Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2009, 131, 4616-4618.	13.7	520
4	Supercurrents Through Single-Walled Carbon Nanotubes. Science, 1999, 284, 1508-1511.	12.6	407
5	Superconductivity in Ropes of Single-Walled Carbon Nanotubes. Physical Review Letters, 2001, 86, 2416-2419.	7.8	376
6	Bright UV Single Photon Emission at Point Defects in h-BN. Nano Letters, 2016, 16, 4317-4321.	9.1	321
7	Probing the Photonic Local Density of States with Electron Energy Loss Spectroscopy. Physical Review Letters, 2008, 100, 106804.	7.8	300
8	Electron-beam spectroscopy for nanophotonics. Nature Materials, 2019, 18, 1158-1171.	27.5	193
9	Electron Energy Loss Spectroscopy Measurement of the Optical Gaps on Individual Boron Nitride Single-Walled and Multiwalled Nanotubes. Physical Review Letters, 2005, 95, 127601.	7.8	190
10	Mapping plasmons at the nanometer scale in an electron microscope. Chemical Society Reviews, 2014, 43, 3865.	38.1	189
11	Multiphoton Absorption and Emission by Interaction of Swift Electrons with Evanescent Light Fields. Nano Letters, 2010, 10, 1859-1863.	9.1	184
12	Nanometer Scale Spectral Imaging of Quantum Emitters in Nanowires and Its Correlation to Their Atomically Resolved Structure. Nano Letters, 2011, 11, 568-573.	9.1	165
13	Linking Chiral Indices and Transport Properties of Double-Walled Carbon Nanotubes. Physical Review Letters, 2002, 89, 155501.	7.8	164
14	Ultraviolet Photodetector Based on GaN/AlN Quantum Disks in a Single Nanowire. Nano Letters, 2010, 10, 2939-2943.	9.1	155
15	Unveiling Nanometer Scale Extinction and Scattering Phenomena through Combined Electron Energy Loss Spectroscopy and Cathodoluminescence Measurements. Nano Letters, 2015, 15, 1229-1237.	9.1	143
16	Plasmonic quantum size effects in silver nanoparticles are dominated by interfaces and local environments. Nature Physics, 2019, 15, 275-280.	16.7	140
17	Plasmon Spectroscopy and Imaging of Individual Gold Nanodecahedra: A Combined Optical Microscopy, Cathodoluminescence, and Electron Energy-Loss Spectroscopy Study. Nano Letters, 2012, 12, 4172-4180.	9.1	139
18	Dielectric response of isolated carbon nanotubes investigated by spatially resolved electron energy-loss spectroscopy:â€ƒFrom multiwalled to single-walled nanotubes. Physical Review B, 2002, 66, .	3.2	129

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19	Acoustoelectric Effects in Carbon Nanotubes. Physical Review Letters, 2000, 85, 2829-2832.	7.8	128
20	Controlled Living Nanowire Growth: Precise Control over the Morphology and Optical Properties of AgAuAg Bimetallic Nanowires. Nano Letters, 2015, 15, 5427-5437.	9.1	122
21	Link between Cathodoluminescence and Electron Energy Loss Spectroscopy and the Radiative and Full Electromagnetic Local Density of States. ACS Photonics, 2015, 2, 1619-1627.	6.6	119
22	Electron energy-gain spectroscopy. New Journal of Physics, 2008, 10, 073035.	2.9	112
23	Plasmons in layered nanospheres and nanotubes investigated by spatially resolved electron energy-loss spectroscopy. Physical Review B, 2000, 61, 13936-13944.	3.2	110
24	Atomic Configuration of Nitrogen-Doped Single-Walled Carbon Nanotubes. Nano Letters, 2014, 14, 5509-5516.	9.1	104
25	Two-Dimensional Quasistatic Stationary Short Range Surface Plasmons in Flat Nanoprisms. Nano Letters, 2010, 10, 902-907.	9.1	103
26	Electron Energy Loss Spectroscopy imaging of surface plasmons at the nanometer scale. Ultramicroscopy, 2016, 162, A1-A24.	1.9	102
27	High-Resolution Imaging and Spectroscopy of Multipolar Plasmonic Resonances in Aluminum Nanoantennas. Nano Letters, 2014, 14, 5517-5523.	9.1	101
28	Ultralocal Modification of Surface Plasmons Properties in Silver Nanocubes. Nano Letters, 2012, 12, 1288-1294.	9.1	99
29	Photon Bunching in Cathodoluminescence. Physical Review Letters, 2015, 114, 197401.	7.8	97
30	Cathodoluminescence in the scanning transmission electron microscope. Ultramicroscopy, 2017, 176, 112-131.	1.9	97
31	Contact induced magnetism in carbon nanotubes. Journal of Physics Condensed Matter, 2004, 16, L155-L161.	1.8	95
32	Study by EELS of helium bubbles in a martensitic steel. Journal of Nuclear Materials, 2009, 393, 102-107.	2.7	95
33	Probing the symmetry of the potential of localized surface plasmon resonances with phase-shaped electron beams. Nature Communications, 2017, 8, 14999.	12.8	95
34	Development of a high brightness ultrafast Transmission Electron Microscope based on a laser-driven cold field emission source. Ultramicroscopy, 2018, 186, 128-138.	1.9	92
35	Quantum transport through carbon nanotubes: Proximity-induced and intrinsic superconductivity. Physical Review B, 2003, 68, .	3.2	89
36	Probing quantum optical excitations with fast electrons. Optica, 2019, 6, 1524.	9.3	89

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37	Spatially Resolved Quantum Nano-Optics of Single Photons Using an Electron Microscope. Physical Review Letters, 2013, 110, 153604.	7.8	88
38	Chirality correlation in double-wall carbon nanotubes as studied by electron diffraction. Physical Review B, 2006, 73, .	3.2	85
39	Modal decompositions of the local electromagnetic density of states and spatially resolved electron energy loss probability in terms of geometric modes. Physical Review B, 2012, 85, .	3.2	82
40	Nanometric Resolved Luminescence in h-BN Flakes: Excitons and Stacking Order. ACS Photonics, 2014, 1, 857-862.	6.6	80
41	Spectral Imaging of Individual Split-Ring Resonators. Physical Review Letters, 2010, 105, 255501.	7.8	79
42	Visualizing Spatial Variations of Plasmonâ€“Exciton Polaritons at the Nanoscale Using Electron Microscopy. Nano Letters, 2019, 19, 8171-8181.	9.1	77
43	Plasmonic Breathing and Edge Modes in Aluminum Nanotriangles. ACS Photonics, 2017, 4, 1257-1263.	6.6	76
44	Experimental Evidence of Surface-Plasmon Coupling in Anisotropic Hollow Nanoparticles. Physical Review Letters, 2001, 87, 075501.	7.8	70
45	Growth mechanism and properties of InGaN insertions in GaN nanowires. Nanotechnology, 2012, 23, 135703.	2.6	67
46	How accurate can the determination of chiral indices of carbon nanotubes be?. European Physical Journal B, 2003, 32, 457-469.	1.5	65
47	Single-Wire Light-Emitting Diodes Based on GaN Wires Containing Both Polar and Nonpolar InGaN/GaN Quantum Wells. Applied Physics Express, 2012, 5, 014101.	2.4	58
48	Spatiotemporal imaging of 2D polariton wave packet dynamics using free electrons. Science, 2021, 372, 1181-1186.	12.6	56
49	Determination of chiral indices of individual single- and double-walled boron nitride nanotubes by electron diffraction. Applied Physics Letters, 2006, 89, 073104.	3.3	55
50	Electron energy-loss spectrum of an electron passing near a locally anisotropic nanotube. Physical Review B, 2002, 66, .	3.2	53
51	Spectrally and spatially resolved cathodoluminescence of nanodiamonds: local variations of the NV⁰emission properties. Nanotechnology, 2012, 23, 175702.	2.6	53
52	Local Optical Chirality Induced by Near-Field Mode Interference in Achiral Plasmonic Metamolecules. Nano Letters, 2020, 20, 509-516.	9.1	53
53	Probing Physical Properties of Confined Fluids within Individual Nanobubbles. Physical Review Letters, 2008, 100, 035301.	7.8	52
54	Experimental evidence of nanometer-scale confinement of plasmonic eigenmodes responsible for hot spots in random metallic films. Physical Review B, 2013, 88, .	3.2	48

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55	Cathodoluminescence in a Scanning Transmission Electron Microscope: A Nanometer-Scale Counterpart of Photoluminescence for the Study of IIâ€“VI Quantum Dots. Journal of Physical Chemistry Letters, 2013, 4, 4090-4094.	4.6	45
56	Seeing and measuring in colours: Electron microscopy and spectroscopies applied to nano-optics. Comptes Rendus Physique, 2014, 15, 158-175.	0.9	43
57	Can Copper Nanostructures Sustain High-Quality Plasmons?. Nano Letters, 2021, 21, 2444-2452.	9.1	43
58	Very low shot noise in carbon nanotubes. European Physical Journal B, 2002, 28, 217-222.	1.5	42
59	Extinction and Scattering Properties of High-Order Surface Plasmon Modes in Silver Nanoparticles Probed by Combined Spatially Resolved Electron Energy Loss Spectroscopy and Cathodoluminescence. ACS Photonics, 2016, 3, 1654-1661.	6.6	42
60	High-angular-resolution electron energy loss spectroscopy of hexagonal boron nitride. Applied Physics Letters, 2007, 90, 204105.	3.3	39
61	Three-dimensional vectorial imaging of surface phonon polaritons. Science, 2021, 371, 1364-1367.	12.6	39
62	CVD growth of carbon nanotubes at very low pressure of acetylene. Applied Physics A: Materials Science and Processing, 2007, 88, 687-691.	2.3	38
63	Multiple-interface coupling effects in local electron-energy-loss measurements of band gap energies. Physical Review B, 2007, 76, .	3.2	37
64	Lifetime Measurements Well below the Optical Diffraction Limit. ACS Photonics, 2016, 3, 1157-1163.	6.6	37
65	Electron energy-loss spectroscopy on individual nanotubes. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 209-217.	1.7	36
66	Vibrational Surface Electron-Energy-Loss Spectroscopy Probes Confined Surface-Phonon Modes. Physical Review X, 2017, 7, .	8.9	36
67	Stimulated electron energy loss and gain in an electron microscope without a pulsed electron gun. Ultramicroscopy, 2019, 203, 44-51.	1.9	36
68	Tailored Nanoscale Plasmon-Enhanced Vibrational Electron Spectroscopy. Nano Letters, 2020, 20, 2973-2979.	9.1	36
69	Spatially resolved measurements of plasmonic eigenstates in complex-shaped, asymmetric nanoparticles: gold nanostars. EPJ Applied Physics, 2011, 54, 33512.	0.7	34
70	Surface Plasmon Mapping of Dumbbell-Shaped Gold Nanorods: The Effect of Silver Coating. Langmuir, 2012, 28, 9063-9070.	3.5	32
71	Structural and optical properties of Al_x Ga_{1â€“x}N nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 868-873.	2.4	32
72	Visualizing highly localized luminescence in GaN/AlN heterostructures in nanowires. Nanotechnology, 2012, 23, 455205.	2.6	31

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73	How Dark Are Radial Breathing Modes in Plasmonic Nanodisks?. ACS Photonics, 2018, 5, 861-866.	6.6	30
74	Simultaneous cathodoluminescence and electron microscopy cytometry of cellular vesicles labeled with fluorescent nanodiamonds. Nanoscale, 2016, 8, 11588-11594.	5.6	29
75	Self-hybridization within non-Hermitian localized plasmonic systems. Nature Physics, 2018, 14, 360-364.	16.7	28
76	Chemical Imaging at Atomic Resolution as a Technique To Refine the Local Structure of Nanocrystals. Angewandte Chemie - International Edition, 2011, 50, 868-872.	13.8	27
77	Coloration and oxygen vacancies in wide band gap oxide semiconductors: Absorption at metallic nanoparticles induced by vacancy clusteringâ€”A case study on indium oxide. Journal of Applied Physics, 2014, 115, 053504.	2.5	27
78	Structure and Luminescence in Long Persistence Eu, Dy, and B Codoped Strontium Aluminate Phosphors: The Boron Effect. Journal of the American Ceramic Society, 2016, 99, 2175-2180.	3.8	26
79	Probing Functional Oxides by Ultra-High Resolution EELS under Variable-Temperature Stimuli. Microscopy and Microanalysis, 2019, 25, 21-22.	0.4	25
80	Stretching of carbon-carbon bonds in a0.7nmdiameter carbon nanotube studied by electron diffraction. Physical Review B, 2004, 70, .	3.2	24
81	Electronic and Mechanical Coupling of Carbon Nanotubes: A Tunable Resonant Raman Study of Systems with Known Structures. Physical Review Letters, 2008, 101, 197403.	7.8	24
82	Probing alloy composition gradient and nanometer-scale carrier localization in single AlGaN nanowires by nanocathodoluminescence. Nanotechnology, 2013, 24, 305703.	2.6	24
83	Probing Plasmon-NV⁰ Coupling at the Nanometer Scale with Photons and Fast Electrons. ACS Photonics, 2018, 5, 324-328.	6.6	24
84	Nanoscale Modification of WS₂ Trion Emission by Its Local Electromagnetic Environment. Nano Letters, 2021, 21, 10178-10185.	9.1	23
85	Optical gap and optically active intragap defects in cubic BN. Physical Review B, 2018, 98, .	3.2	22
86	Radiation of Dynamic Toroidal Moments. ACS Photonics, 2019, 6, 467-474.	6.6	22
87	Superconductivity in ropes of carbon nanotubes. Solid State Communications, 2004, 131, 615-623.	1.9	21
88	Publisher's Note. Ultramicroscopy, 2017, 174, 50.	1.9	21
89	Role of compositional fluctuations and their suppression on the strain and luminescence of InGaN alloys. Journal of Applied Physics, 2015, 117, 055705.	2.5	20
90	Multi-dimensional and multi-signal approaches in scanning transmission electron microscopes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3845-3858.	3.4	19

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91	1D-confinement of polyiodides inside single-wall carbon nanotubes. Carbon, 2013, 52, 100-108.	10.3	19
92	InGaN nanowires with high InN molar fraction: growth, structural and optical properties. Nanotechnology, 2016, 27, 195704.	2.6	19
93	Nanoscale mapping of plasmons, photons, and excitons. MRS Bulletin, 2012, 37, 39-46.	3.5	17
94	Spatially and spectrally resolved cathodoluminescence with fast electrons: A tool for background subtraction in luminescence intensity secondâ€order correlation measurements applied to subwavelength inhomogeneous diamond nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2060-2065.	1.8	17
95	Nanometer-scale monitoring of quantum-confined Stark effect and emission efficiency droop in multiple GaN/AlN quantum disks in nanowires. Physical Review B, 2016, 93, .	3.2	17
96	Spatial and spectral dynamics in STEM hyperspectral imaging using random scan patterns. Ultramicroscopy, 2020, 212, 112912.	1.9	17
97	Fabrication of Ion-Shaped Anisotropic Nanoparticles and their Orientational Imaging by Second-Harmonic Generation Microscopy. Scientific Reports, 2016, 6, 37469.	3.3	15
98	Optical polarization analogue in free electron beams. Nature Physics, 2021, 17, 598-603.	16.7	15
99	Time-resolved cathodoluminescence in an ultrafast transmission electron microscope. Applied Physics Letters, 2021, 119, .	3.3	15
100	Unveiling the Coupling of Single Metallic Nanoparticles to Whispering-Gallery Microcavities. Nano Letters, 2022, 22, 319-327.	9.1	15
101	Optical Gap Measurements on Individual Boron Nitride Nanotubes by Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2008, 14, 274-282.	0.4	14
102	Probing non-dipole allowed excitations in highly correlated materials with nanoscale resolution. Ultramicroscopy, 2009, 109, 1333-1337.	1.9	14
103	Localized Plasmonic Resonances of Prolate Nanoparticles in a Symmetric Environment: Experimental Verification of the Accuracy of Numerical and Analytical Models. Physical Review Applied, 2018, 9, .	3.8	14
104	Event-based hyperspectral EELS: towards nanosecond temporal resolution. Ultramicroscopy, 2022, 239, 113539.	1.9	13
105	Spatially Resolved EELS: The Spectrum-Imaging Technique and Its Applications. , 2011, , 163-205.		12
106	Solvothermally-synthesized tin-doped indium oxide plasmonic nanocrystals spray-deposited onto glass as near-infrared electrochromic films. Solar Energy Materials and Solar Cells, 2019, 200, 110014.	6.2	12
107	Plasmonic Oligomers with Tunable Conductive Nanojunctions. Journal of Physical Chemistry Letters, 2019, 10, 7093-7099.	4.6	12
108	Incorporation of Europium into GaN Nanowires by Ion Implantation. Journal of Physical Chemistry C, 2019, 123, 11874-11887.	3.1	12

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109	ELECTRON ENERGY LOSS SPECTROSCOPY AND ANNULAR DARK FIELD IMAGING AT A NANOMETER RESOLUTION IN A SCANNING TRANSMISSION ELECTRON MICROSCOPE. Surface Review and Letters, 2000, 07, 475-494.	1.1	11
110	Superconductivity in ropes of single-walled carbon nanotubes. Physica B: Condensed Matter, 2003, 329-333, 1321-1322.	2.7	11
111	Scanning and transmission electron microscope images of a suspended single-walled carbon nanotube. Applied Physics Letters, 2006, 89, 013120.	3.3	11
112	A polarity-driven nanometric luminescence asymmetry in AlN/GaN heterostructures. Applied Physics Letters, 2014, 105, 143106.	3.3	11
113	Simulations of electron energy-loss spectra of an electron passing near a locally anisotropic nanotube. Journal of Electron Spectroscopy and Related Phenomena, 2003, 129, 293-298.	1.7	10
114	Alteration of superconductivity and radial breathing modes in suspended ropes of carbon nanotubes by organic polymer coatings. Physical Review B, 2006, 74, .	3.2	10
115	Mapping Surface Plasmons on a Single Mmetallic Nanoparticle using Sub-nm Resolved EELS Spectrum-Imaging. Microscopy and Microanalysis, 2007, 13, .	0.4	10
116	GaN/AlN quantum disc singleâ€nanowire photodetectors. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1323-1327.	1.8	10
117	Nanoscale Chemical and Structural Characterization of Transient Metallic Nanowires using Aberration-Corrected STEM-EELS. Nano Letters, 2012, 12, 2732-2739.	9.1	10
118	A spectromicroscope for nanophysics. Ultramicroscopy, 2017, 180, 81-92.	1.9	10
119	Nanocross: A Highly Tunable Plasmonic System. Journal of Physical Chemistry C, 2017, 121, 16521-16527.	3.1	10
120	High brightness ultrafast transmission electron microscope based on a laser-driven cold-field emission source: principle and applications. Advances in Physics: X, 2019, 4, 1660214.	4.1	10
121	Ballistic- and quantum-conductor carbon nanotubes: A reference experiment put to the test. Physical Review B, 2014, 90, .	3.2	9
122	Monolayer and thin hâ€“BN as substrates for electron spectro-microscopy analysis of plasmonic nanoparticles. Applied Physics Letters, 2018, 113, .	3.3	9
123	Electron Energy-loss Spectroscopy Using MerlinEM - Medipix3 Detector. Microscopy and Microanalysis, 2020, 26, 1940-1942.	0.4	7
124	Quantum control of free electrons. Nature, 2015, 521, 166-167.	27.8	6
125	Optimizing the Nion STEM for In-Situ Experiments. Microscopy and Microanalysis, 2018, 24, 1132-1133.	0.4	6
126	Probing the Radiative Electromagnetic Local Density of States in Nanostructures with a Scanning Tunneling Microscope. ACS Photonics, 2020, 7, 1280-1289.	6.6	6

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127	Bridging nano-optics and condensed matter formalisms in a unified description of inelastic scattering of relativistic electron beams. SciPost Physics, 2021, 10, .	4.9	6
128	Aluminum Cayley trees as scalable, broadband, multiresonant optical antennas. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	6
129	Excitation of plasmons of anisotropic nanostructures by nearby electrons. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 219-224.	1.7	5
130	Emergence of point defect states in a plasmonic crystal. Physical Review B, 2019, 100, .	3.2	5
131	Spatially Resolved EELS on Carbon-Based Nanostructures. , 2001, , 201-232.		5
132	Far-Field Radiation of Three-Dimensional Plasmonic Gold Tapers near Apexes. ACS Photonics, 2019, 6, 2509-2516.	6.6	4
133	Time-resolved Cathodoluminescence in a Transmission Electron Microscope Applied to NV Centers in Diamond. Microscopy and Microanalysis, 2020, 26, 2022-2023.	0.4	4
134	Spectroscopies and Electron Microscopies Unravel the Origin of the First Colour Photographs. Angewandte Chemie - International Edition, 2020, 59, 9113-9119.	13.8	4
135	Shot noise in carbon nanotubes. , 2003, , .		3
136	EELS measurements in single wall Boron Nitride nanotubes. AIP Conference Proceedings, 2004, , .	0.4	3
137	Momentum-Resolved EELS Measurements of Hexagonal Boron Nitride. Microscopy and Microanalysis, 2006, 12, 1188-1189.	0.4	3
138	Assignment of Chiral Indices of Boron Nitride Nanotubes by Electron Diffraction. Microscopy and Microanalysis, 2006, 12, 578-579.	0.4	3
139	Optical Gap Measurements of Boron Nitride Nanotubes by EELS. Microscopy and Microanalysis, 2006, 12, 1166-1167.	0.4	3
140	New Directions Toward Nanophysics Experiments in STEM. Microscopy and Microanalysis, 2018, 24, 434-435.	0.4	3
141	Luminescence from Isolated Tb-based Metallacrown Molecular Complexes on h-BN. Microscopy and Microanalysis, 2019, 25, 604-605.	0.4	3
142	Electronic properties of black phosphorus using monochromated low-loss EELS. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 115002.	3.5	3
143	Proximity-induced superconductivity in carbon nanotubes. Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 933-943.	0.1	2
144	Intrinsic Superconductivity in Ropes of Carbon Nanotubes. AIP Conference Proceedings, 2002, , .	0.4	2

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145	Probing surface plasmons on individual nano-objects by near-field electron energy loss spectroscopy. , 2005, , .		2
146	TEM Nanolaboratory. Imaging & Microscopy, 2008, 10, 26-27.	0.1	2
147	Mapping Surface Plasmons on a Single Metallic Nanoparticle. , 2008, , .		2
148	Atomic-Resolution STEM at 60kV Primary Voltage. Microscopy and Microanalysis, 2008, 14, 136-137.	0.4	2
149	Spatial modulation of above-the-gap cathodoluminescence in InP nanowires. Journal of Physics Condensed Matter, 2013, 25, 505303.	1.8	2
150	Advances in Scanning Transmission Electron Microscope Cathodoluminescence. Microscopy and Microanalysis, 2015, 21, 1687-1688.	0.4	2
151	Quantum Nanooptics in the Electron Microscope. Advances in Imaging and Electron Physics, 2017, 199, 185-235.	0.2	2
152	Stable and Flexible Side-Entry Stage for Nion STEMs. Microscopy and Microanalysis, 2017, 23, 54-55.	0.4	2
153	Probing plasmonic excitation mechanisms and far-field radiation of single-crystalline gold tapers with electrons. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190599.	3.4	2
154	Design and implementation of a device based on an off-axis parabolic mirror to perform luminescence experiments in a scanning tunneling microscope. Review of Scientific Instruments, 2022, 93, 043704.	1.3	2
155	Surface Plasmon Coupling in Nanotubes. AIP Conference Proceedings, 2002, , .	0.4	1
156	Electrodynamic response of carbon nanostructures in electron-energy-loss spectroscopy. , 2003, 5219, 1.		1
157	Recent advances in (S)TEM and related spectroscopies: a tribute to C. Colliex. EPJ Applied Physics, 2011, 54, 33501.	0.7	1
158	Dynamic Random Scan Approach of Spectrum Imaging for Temporal Evolution of Spectroscopic Signals. Microscopy and Microanalysis, 2019, 25, 162-163.	0.4	1
159	Toroidal Moments Probed by Electron Beams. Journal of Physics: Conference Series, 2020, 1461, 012174.	0.4	1
160	Photocurrent Spectroscopy and Luminescence of GaN/AlN Quantum Discs in GaN Nanowires. , 2010, , .		1
161	Evidence of random Surface Plasmon modes in fractal metal films. , 2014, , .		1
162	Valence Electron EELS Spectroscopy on Nanoparticle Surfaces. Microscopy and Microanalysis, 1999, 5, 668-669.	0.4	0

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163	A Near Field EEL Spectroscopy study of surface modes in nanotubes and onions from various layered materials. AIP Conference Proceedings, 2000, , .	0.4	0
164	Superconductivity and normal state resistance of carbon nanotubes. AIP Conference Proceedings, 2000, , .	0.4	0
165	Superconductivity in molecular wires. Physics-Uspekhi, 2001, 44, 69-71.	2.2	0
166	Near-field electron energy loss of nanotube bundles and surface plasmons coupling in nanocylinders: a continuum dielectric approach. , 2003, 5219, 16.		0
167	Superconductivity in Long and Short Molecules. AIP Conference Proceedings, 2004, , .	0.4	0
168	Proximity induced and intrinsic superconductivity in long and short molecules. Les Houches Summer School Proceedings, 2005, 81, 593-595.	0.2	0
169	Mapping Electron Excitations in the Visible-UV Range Using Sub-nm Resolved STEM-EELS Spectrum Imaging. , 2009, , .		0
170	Nano-optic of metamaterials by spatially resolved Electron Energy Loss Spectroscopy. , 2010, , .		0
171	Visualizing the morphology of hybrid nanoparticles at the nanometer level using STEM-EELS spectro-microscopy. Microscopy and Microanalysis, 2012, 18, 1602-1603.	0.4	0
172	In situ break-junction sample holder for transmission electron microscopy. EPJ Applied Physics, 2013, 64, 31001.	0.7	0
173	Experimental and Theoretical Atomic-Resolved EELS Studies on Nitrogen Doped Single-Walled Carbon Nanotubes. Microscopy and Microanalysis, 2014, 20, 76-77.	0.4	0
174	From Quantum Confinement to Quantum Electrodynamics using nanoCathodoluminescence in a STEM. Microscopy and Microanalysis, 2014, 20, 572-573.	0.4	0
175	Nanometric Resolved Cathodoluminescence on Few-Layer h-BN Flakes. Microscopy and Microanalysis, 2014, 20, 1746-1747.	0.4	0
176	Quantum nano optics of defect centers in diamond and h-BN with nano-cathodoluminescence. , 2014, , .		0
177	Quantum and Time-Resolved Nano-Optics using Auto-Correlated Cathodoluminescence in a STEM. Microscopy and Microanalysis, 2015, 21, 1253-1254.	0.4	0
178	Imaging of the second-harmonic response of spatially-oriented individual ion-shaped nanoparticles. , 2016, , .		0
179	Optical Spectroscopy at High Spatial Resolution with Fast Electrons. Microscopy and Microanalysis, 2017, 23, 1528-1529.	0.4	0
180	Interaction between Relativistic Electrons and Mesoscopic Plasmonic Tapers. Microscopy and Microanalysis, 2017, 23, 1534-1535.	0.4	0

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181	Bi-orthogonality allows observation of self-hybridization in plasmonic system. , 2017, , .		0
182	Tracking Quantum Effects at the Nanometer Scale with EELS and Cathodoluminescence. Microscopy and Microanalysis, 2019, 25, 952-953.	0.4	0
183	Towards Plasmon-Exciton Hybridization at the Nanoscale using STEM EELS. Microscopy and Microanalysis, 2019, 25, 624-625.	0.4	0
184	EELS in STEM: the â€œSwiss Army Knifeâ€•of Spectroscopy. Microscopy and Microanalysis, 2019, 25, 620-621.	0.4	0
185	Visualizing Strong Light-matter Interactions Using Fast Electrons. Microscopy and Microanalysis, 2020, 26, 3182-3184.	0.4	0
186	Combining Highly Monochromatized EELS with CL for Probing Elementary Excitations and Their Interaction. Microscopy and Microanalysis, 2020, 26, 1502-1504.	0.4	0
187	Tailored nanoscale plasmon-enhanced vibrational electron spectroscopy. Microscopy and Microanalysis, 2021, 27, 320-321.	0.4	0
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