

# Mikael Kll

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2951715/mikael-kall-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

234  
papers

19,381  
citations

67  
h-index

136  
g-index

248  
ext. papers

21,656  
ext. citations

7.4  
avg, IF

6.75  
L-index

#	Paper	IF	Citations
234	Spectroscopy of Single Hemoglobin Molecules by Surface Enhanced Raman Scattering. <i>Physical Review Letters</i> , <b>1999</b> , 83, 4357-4360	7.4	2053
233	Electromagnetic contributions to single-molecule sensitivity in surface-enhanced raman scattering. <i>Physical Review E</i> , <b>2000</b> , 62, 4318-24	2.4	1348
232	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , <b>2020</b> , 14, 28-117	16.7	1000
231	Optical properties of gold nanorings. <i>Physical Review Letters</i> , <b>2003</b> , 90, 057401	7.4	842
230	Nanoparticle Optics: The Importance of Radiative Dipole Coupling in Two-Dimensional Nanoparticle Arrays. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 7337-7342	3.4	604
229	Sensing characteristics of NIR localized surface plasmon resonances in gold nanorings for application as ultrasensitive biosensors. <i>Nano Letters</i> , <b>2007</b> , 7, 1256-63	11.5	603
228	Confined plasmons in nanofabricated single silver particle pairs: experimental observations of strong interparticle interactions. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 1079-87	3.4	447
227	Surface-plasmon-enhanced optical forces in silver nanoaggregates. <i>Physical Review Letters</i> , <b>2002</b> , 89, 246802	7.4	394
226	Interparticle coupling effects in nanofabricated substrates for surface-enhanced Raman scattering. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 802-804	3.4	383
225	Controlling plasmon line shapes through diffractive coupling in linear arrays of cylindrical nanoparticles fabricated by electron beam lithography. <i>Nano Letters</i> , <b>2005</b> , 5, 1065-70	11.5	373
224	Cascaded logic gates in nanophotonic plasmon networks. <i>Nature Communications</i> , <b>2011</b> , 2, 387	17.4	337
223	Realizing Strong Light-Matter Interactions between Single-Nanoparticle Plasmons and Molecular Excitons at Ambient Conditions. <i>Physical Review Letters</i> , <b>2015</b> , 114, 157401	7.4	322
222	Optical Properties of Short Range Ordered Arrays of Nanometer Gold Disks Prepared by Colloidal Lithography. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 5768-5772	3.4	295
221	Refractometric sensing using propagating versus localized surface plasmons: a direct comparison. <i>Nano Letters</i> , <b>2009</b> , 9, 4428-33	11.5	275
220	A bimetallic nanoantenna for directional colour routing. <i>Nature Communications</i> , <b>2011</b> , 2, 481	17.4	259
219	Localized surface plasmon resonance sensing of lipid-membrane-mediated biorecognition events. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5043-8	16.4	253
218	Optical Spectroscopy of Nanometric Holes in Thin Gold Films. <i>Nano Letters</i> , <b>2004</b> , 4, 1003-1007	11.5	252

217	Surface-enhanced Raman scattering and fluorescence near metal nanoparticles. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	247
216	Creating hot nanoparticle pairs for surface-enhanced Raman spectroscopy through optical manipulation. <i>Nano Letters</i> , <b>2006</b> , 6, 2639-41	11.5	221
215	Plasmonic sensing characteristics of single nanometric holes. <i>Nano Letters</i> , <b>2005</b> , 5, 2335-9	11.5	218
214	Explosive and chemical threat detection by surface-enhanced Raman scattering: a review. <i>Analytica Chimica Acta</i> , <b>2015</b> , 893, 1-13	6.6	205
213	Plasmonic Au/Co/Au nanosandwiches with enhanced magneto-optical activity. <i>Small</i> , <b>2008</b> , 4, 202-5	11	199
212	Alignment, rotation, and spinning of single plasmonic nanoparticles and nanowires using polarization dependent optical forces. <i>Nano Letters</i> , <b>2010</b> , 10, 268-73	11.5	197
211	Unidirectional broadband light emission from supported plasmonic nanowires. <i>Nano Letters</i> , <b>2011</b> , 11, 706-11	11.5	186
210	Enhanced nanoplasmonic optical sensors with reduced substrate effect. <i>Nano Letters</i> , <b>2008</b> , 8, 3893-8	11.5	186
209	Approaching the strong coupling limit in single plasmonic nanorods interacting with J-aggregates. <i>Scientific Reports</i> , <b>2013</b> , 3, 3074	4.9	181
208	Unified treatment of fluorescence and raman scattering processes near metal surfaces. <i>Physical Review Letters</i> , <b>2004</b> , 93, 243002	7.4	169
207	Polarization-dependent surface-enhanced Raman spectroscopy of isolated silver nanoaggregates. <i>ChemPhysChem</i> , <b>2003</b> , 4, 1001-5	3.2	160
206	Optical Spectroscopy of Single Trapped Metal Nanoparticles in Solution. <i>Nano Letters</i> , <b>2004</b> , 4, 115-118	11.5	156
205	Laser trapping of colloidal metal nanoparticles. <i>ACS Nano</i> , <b>2015</b> , 9, 3453-69	16.7	154
204	Unidirectional ultracompact optical nanoantennas. <i>Nano Letters</i> , <b>2009</b> , 9, 2343-9	11.5	154
203	Plasmon-enhanced colorimetric ELISA with single molecule sensitivity. <i>Nano Letters</i> , <b>2011</b> , 11, 1826-30	11.5	152
202	Plasmons in the metallic nanoparticle-film system as a tunable impurity problem. <i>Nano Letters</i> , <b>2005</b> , 5, 2009-13	11.5	140
201	Nanohole Plasmons in Optically Thin Gold Films. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 1207-1212	3.8	136
200	Modeling the optical response of nanoparticle-based surface plasmon resonance sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 87, 244-249	8.5	136

199	Ultrahigh sensitivity made simple: nanoplasmonic label-free biosensing with an extremely low limit-of-detection for bacterial and cancer diagnostics. <i>Nanotechnology</i> , <b>2009</b> , 20, 434015	3.4	126
198	Directional scattering and hydrogen sensing by bimetallic Pd-Au nanoantennas. <i>Nano Letters</i> , <b>2012</b> , 12, 2464-9	11.5	125
197	Single-Molecule Surface-Enhanced Raman and Fluorescence Correlation Spectroscopy of Horseradish Peroxidase. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 1213-1218	3.4	120
196	Gold-silica-gold nanosandwiches: tunable bimodal plasmonic resonators. <i>Small</i> , <b>2007</b> , 3, 294-9	11	116
195	Transition metal dichalcogenide nanodisks as high-index dielectric Mie nanoresonators. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 679-683	28.7	112
194	Optical aggregation of metal nanoparticles in a microfluidic channel for surface-enhanced Raman scattering analysis. <i>Lab on A Chip</i> , <b>2009</b> , 9, 193-5	7.2	106
193	Ultrafast spinning of gold nanoparticles in water using circularly polarized light. <i>Nano Letters</i> , <b>2013</b> , 13, 3129-34	11.5	103
192	Plasmon Enhanced Internal Photoemission in Antenna-Spacer-Mirror Based Au/TiO <sub>2</sub> Nanostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 4059-65	11.5	100
191	A microfluidic system enabling Raman measurements of the oxygenation cycle in single optically trapped red blood cells. <i>Lab on A Chip</i> , <b>2005</b> , 5, 431-6	7.2	98
190	Magnetic-field enhancement in gold nanosandwiches. <i>Optics Express</i> , <b>2006</b> , 14, 8240-6	3.3	94
189	Surface-Based Gold-Nanoparticle Sensor for Specific and Quantitative DNA Hybridization Detection. <i>Langmuir</i> , <b>2003</b> , 19, 10414-10419	4	93
188	Laser-Induced Growth and Deposition of Noble-Metal Nanoparticles for Surface-Enhanced Raman Scattering. <i>Nano Letters</i> , <b>2003</b> , 3, 593-596	11.5	92
187	Optical antennas based on coupled nanoholes in thin metal films. <i>Nature Physics</i> , <b>2007</b> , 3, 884-889	16.2	90
186	Dimer-on-mirror SERS substrates with attogram sensitivity fabricated by colloidal lithography. <i>Nanoscale</i> , <b>2015</b> , 7, 9405-10	7.7	89
185	Intrinsic Fano interference of localized plasmons in Pd nanoparticles. <i>Nano Letters</i> , <b>2009</b> , 9, 882-6	11.5	85
184	Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. <i>Nanoscale</i> , <b>2016</b> , 8, 1305-8	7.7	82
183	Gold Nanorod Rotary Motors Driven by Resonant Light Scattering. <i>ACS Nano</i> , <b>2015</b> , 9, 12542-51	16.7	82
182	Resonant coupling between localized plasmons and anisotropic molecular coatings in ellipsoidal metal nanoparticles. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	82

181	Raman-active phonons in Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1-x</sub> Y <sub>x</sub> Cu <sub>2</sub> O <sub>8+d</sub> (x=0-1): Effects of hole filling and internal pressure induced by Y doping for Ca, and implications for phonon assignments. <i>Physical Review B</i> , <b>1996</b> , 53, 11796-11806	3.3	81
180	Mutually synchronized bottom-up multi-nanocontact spin-torque oscillators. <i>Nature Communications</i> , <b>2013</b> , 4, 2731	17.4	80
179	Optical magnetism and plasmonic Fano resonances in metal-insulator-metal oligomers. <i>Nano Letters</i> , <b>2015</b> , 15, 1952-8	11.5	79
178	Nanogaps for SERS applications. <i>MRS Bulletin</i> , <b>2014</b> , 39, 163-168	3.2	78
177	Refractometric biosensing based on optical phase flips in sparse and short-range-ordered nanoplasmonic layers. <i>Light: Science and Applications</i> , <b>2014</b> , 3, e220-e220	16.7	76
176	Charge-transfer and compression effects of isomorphous substitutions in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>1993</b> , 47, 5359-5366	3.3	76
175	Single Molecule Vibrational Fine-structure of Tyrosine Adsorbed on Ag Nano-Crystals. <i>Single Molecules</i> , <b>2000</b> , 1, 239-248		75
174	Angular distribution of surface-enhanced Raman scattering from individual au nanoparticle aggregates. <i>ACS Nano</i> , <b>2011</b> , 5, 2036-41	16.7	73
173	Resonance Raman spectroscopy of optically trapped functional erythrocytes. <i>Journal of Biomedical Optics</i> , <b>2004</b> , 9, 593-600	3.5	72
172	Field enhancement and molecular response in surface-enhanced Raman scattering and fluorescence spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2005</b> , 36, 510-514	2.3	72
171	High-resolution microspectroscopy of plasmonic nanostructures for miniaturized biosensing. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6572-80	7.8	71
170	Long-Range Refractive Index Sensing Using Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 11806-11810	3.8	71
169	Optical Forces in Plasmonic Nanoparticle Dimers. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7472-7479	3.8	69
168	Superstructure formation and the structural phase diagram of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1999</b> , 317-318, 259-269	1.3	67
167	Hot Electron Generation and Cathodoluminescence Nanoscopy of Chiral Split Ring Resonators. <i>Nano Letters</i> , <b>2016</b> , 16, 5183-90	11.5	66
166	Macroscopic Layers of Chiral Plasmonic Nanoparticle Oligomers from Colloidal Lithography. <i>ACS Photonics</i> , <b>2014</b> , 1, 1074-1081	6.3	65
165	Plasmonic Properties of Silver Trimers with Trigonal Symmetry Fabricated by Electron-Beam Lithography. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14313-14317	3.8	65
164	Oxygen-ordering superstructures in underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> studied by hard x-ray diffraction. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	64

163	Schottky barrier formation and band bending revealed by first- principles calculations. <i>Scientific Reports</i> , <b>2015</b> , 5, 11374	4.9	62
162	Large-Scale Silicon Nanophotonic Metasurfaces with Polarization Independent Near-Perfect Absorption. <i>Nano Letters</i> , <b>2017</b> , 17, 3054-3060	11.5	60
161	Sensitivity enhancement of nanoplasmonic sensors in low refractive index substrates. <i>Optics Express</i> , <b>2009</b> , 17, 2015-23	3.3	60
160	Direct Observation of Heterogeneous Photochemistry on Aggregated Ag Nanocrystals Using Raman Spectroscopy: The Case of Photoinduced Degradation of Aromatic Amino Acids. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 4187-4193	2.8	60
159	Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	58
158	Shape effects in the localized surface plasmon resonance of single nanoholes in thin metal films. <i>Optics Express</i> , <b>2008</b> , 16, 5609-16	3.3	57
157	Laser-induced growth of Ag nanoparticles from aqueous solutions. <i>ChemPhysChem</i> , <b>2002</b> , 3, 116-9	3.2	56
156	Structural asymmetry and induced optical magnetism in plasmonic nanosandwiches. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 659	1.7	55
155	Light-Driven Rotation of Plasmonic Nanomotors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706272	15.6	53
154	Anapole-Enhanced Intrinsic Raman Scattering from Silicon Nanodisks. <i>ACS Photonics</i> , <b>2018</b> , 5, 2730-2736	6.3	50
153	Nanoscale Inorganic Motors Driven by Light: Principles, Realizations, and Opportunities. <i>Chemical Reviews</i> , <b>2020</b> , 120, 269-287	68.1	50
152	Photothermal Heating of Plasmonic Nanoantennas: Influence on Trapped Particle Dynamics and Colloid Distribution. <i>ACS Photonics</i> , <b>2018</b> , 5, 2878-2887	6.3	48
151	Evaluating Conditions for Strong Coupling between Nanoparticle Plasmons and Organic Dyes Using Scattering and Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 20588-20596	3.8	47
150	FRET enhancement close to gold nanoparticles positioned in DNA origami constructs. <i>Nanoscale</i> , <b>2017</b> , 9, 673-683	7.7	46
149	Plasmonic particles set into fast orbital motion by an optical vortex beam. <i>Optics Express</i> , <b>2014</b> , 22, 4349-4356	3.5	46
148	Coloring fluorescence emission with silver nanowires. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 103114	3.4	46
147	Superior LSPR substrates based on electromagnetic decoupling for on-a-chip high-throughput label-free biosensing. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e17042	16.7	45
146	Light-sensing via hydrogen peroxide and a peroxidoxin. <i>Nature Communications</i> , <b>2017</b> , 8, 14791	17.4	44

145	Optically controlled interparticle distance tuning and welding of single gold nanoparticle pairs by photochemical metal deposition. <i>Optics Express</i> , <b>2008</b> , 16, 12362-71	3.3	44
144	Franck-Condon higher order lattice excitations in the LaFe <sub>1-x</sub> Cr <sub>x</sub> O <sub>3</sub> (x=0, 0.1, 0.5, 0.9, 1.0) perovskites due to Fe-Cr charge transfer effects. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	44
143	Fano interference between localized plasmons and interface reflections. <i>ACS Nano</i> , <b>2012</b> , 6, 7533-9	16.7	42
142	Importance of substrate and photo-induced effects in Raman spectroscopy of single functional erythrocytes. <i>Journal of Biomedical Optics</i> , <b>2003</b> , 8, 173-8	3.5	41
141	Lattice and charge excitations in La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> . <i>Physical Review B</i> , <b>2000</b> , 61, 1193-1197	3.3	41
140	Plasmon hybridization reveals the interaction between individual colloidal gold nanoparticles confined in an optical potential well. <i>Nano Letters</i> , <b>2011</b> , 11, 4505-8	11.5	40
139	On the importance of optical forces in surface-enhanced Raman scattering (SERS). <i>Faraday Discussions</i> , <b>2006</b> , 132, 35-44; discussion 85-94	3.6	40
138	Multivariate evaluation of doxorubicin surface-enhanced Raman spectra. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2001</b> , 57, 1907-15	4.4	39
137	Nanostructured Dielectric Fractals on Resonant Plasmonic Metasurfaces for Selective and Sensitive Optical Sensing of Volatile Compounds. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800931	24	38
136	Image analysis algorithms for cell contour recognition in budding yeast. <i>Optics Express</i> , <b>2008</b> , 16, 12943-53	3.7	37
135	Optical forces on interacting plasmonic nanoparticles in a focused Gaussian beam. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	36
134	Plasmonic versus All-Dielectric Nanoantennas for Refractometric Sensing: A Direct Comparison. <i>ACS Photonics</i> , <b>2019</b> , 6, 1556-1564	6.3	35
133	Feasibility of quantitative determination of doxorubicin with surface-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2001</b> , 32, 971-974	2.3	35
132	High-quality ceramics of YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> from citrate sol-gel precursors sintered at one atmosphere oxygen pressure. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 173, 377-380	1.3	35
131	A thermal plasmonic sensor platform: resistive heating of nanohole arrays. <i>Nano Letters</i> , <b>2014</b> , 14, 3544-9	11.5	34
130	Metasurfaces and Colloidal Suspensions Composed of 3D Chiral Si Nanoresonators. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701352	24	34
129	Polarization conversion-based molecular sensing using anisotropic plasmonic metasurfaces. <i>Nanoscale</i> , <b>2016</b> , 8, 10576-81	7.7	33
128	CuO-chain Raman scattering and photoinduced metastability in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Physical Review B</i> , <b>1998</b> , 57, R14072-R14075	3.3	32

127	Light scattering in gold nanorings. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2004</b> , 89, 11-16	2.1	31
126	Phase-sensitive near-field imaging of metal nanoparticles. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 6211-6214	4.5	31
125	Optimizing nanofabricated substrates for Surface Enhanced Raman Scattering. <i>Scripta Materialia</i> , <b>1999</b> , 12, 783-788		31
124	Photochemical Tuning of Plasmon Resonances in Single Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4920-4924	3.8	30
123	Interparticle coupling effects in surface-enhanced Raman scattering <b>2001</b> ,		30
122	Temperature dependence of phonon Raman scattering in Y2Ba4Cu7O15. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 225, 317-324	1.3	30
121	Continuous-Gradient Plasmonic Nanostructures Fabricated by Evaporation on a Partially Exposed Rotating Substrate. <i>Advanced Materials</i> , <b>2016</b> , 28, 4658-64	24	28
120	Structure of Y (Pr) Ba2Cu4O8. <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 204, 147-154	1.3	28
119	Antibody-Antigen Interaction Dynamics Revealed by Analysis of Single-Molecule Equilibrium Fluctuations on Individual Plasmonic Nanoparticle Biosensors. <i>ACS Nano</i> , <b>2018</b> , 12, 9958-9965	16.7	27
118	Optical response of supported gold nanodisks. <i>Optics Express</i> , <b>2011</b> , 19, 12093-107	3.3	26
117	Interactions of Bacterial Lipopolysaccharides with Gold Nanorod Surfaces Investigated by Refractometric Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24915-25	9.5	25
116	Directional Light Extinction and Emission in a Metasurface of Tilted Plasmonic Nanopillars. <i>Nano Letters</i> , <b>2016</b> , 16, 98-104	11.5	25
115	Plasmon-enhanced enzyme-linked immunosorbent assay on large arrays of individual particles made by electron beam lithography. <i>ACS Nano</i> , <b>2013</b> , 7, 8824-32	16.7	25
114	Investigations on light-induced stress in fluorescence microscopy using nuclear localization of the transcription factor Msn2p as a reporter. <i>FEMS Yeast Research</i> , <b>2009</b> , 9, 875-84	3.1	25
113	Polymerized complex synthesis of a pure 93 K Y2Ba4Cu7O15 superconductor without the need of high oxygen pressure and additive catalysts. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 2424-2428	2.5	25
112	Probing Photothermal Effects on Optically Trapped Gold Nanorods by Simultaneous Plasmon Spectroscopy and Brownian Dynamics Analysis. <i>ACS Nano</i> , <b>2017</b> , 11, 10053-10061	16.7	24
111	A simple model for the resonance shift of localized plasmons due to dielectric particle adhesion. <i>Optics Express</i> , <b>2012</b> , 20, 524-33	3.3	24
110	Raman-active phonons in Bi2Sr2LaxCuO6+d: Phonon assignment and charge-redistribution effects. <i>Physical Review B</i> , <b>1997</b> , 56, 2847-2851	3.3	24



109	Green $\beta$ tensor calculations of plasmon resonances of single holes and hole pairs in thin gold films. <i>New Journal of Physics</i> , <b>2008</b> , 10, 105004	2.9	24
108	Quantum description and emergence of nonlinearities in strongly coupled single-emitter nanoantenna systems. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	23
107	Complete light annihilation in an ultrathin layer of gold nanoparticles. <i>Nano Letters</i> , <b>2013</b> , 13, 3053-8	11.5	23
106	The yeast transcription factor Crz1 is activated by light in a Ca <sup>2+</sup> /calcineurin-dependent and PKA-independent manner. <i>PLoS ONE</i> , <b>2013</b> , 8, e53404	3.7	23
105	Simulating light scattering from supported plasmonic nanowires. <i>Optics Express</i> , <b>2012</b> , 20, 10816-26	3.3	23
104	Nanometric control of the distance between plasmonic nanoparticles using optical forces. <i>Optics Express</i> , <b>2007</b> , 15, 14914-20	3.3	23
103	Brownian fluctuations of an optically rotated nanorod. <i>Optica</i> , <b>2017</b> , 4, 746	8.6	22
102	Large-Scale Fabrication of Shaped High Index Dielectric Nanoparticles on a Substrate and in Solution. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701253	8.1	21
101	Continuous light exposure causes cumulative stress that affects the localization oscillation dynamics of the transcription factor Msn2p. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2011</b> , 1813, 358-66	4.9	21
100	Screened Raman response in two-dimensional dx <sup>2</sup> -y <sup>2</sup> -wave superconductors: Relative intensities in different symmetry channels. <i>Physical Review B</i> , <b>1997</b> , 55, 97-100	3.3	21
99	Directional Nanoplasmonic Antennas for Self-Referenced Refractometric Molecular Analysis. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 21075-21080	3.8	20
98	Neutron-scattering studies of a polymer electrolyte, PPO $\cdot$ LiClO <sub>4</sub> . <i>Solid State Ionics</i> , <b>1998</b> , 113-115, 139-147	3.3	20
97	Ultimate Limit of Light Extinction by Nanophotonic Structures. <i>Nano Letters</i> , <b>2015</b> , 15, 7633-8	11.5	19
96	Order-disorder-order phase transitions in the pyrochlore superconductor Cd <sub>2</sub> Re <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	19
95	Sulfate assimilation mediates tellurite reduction and toxicity in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , <b>2010</b> , 9, 1635-47		18
94	Estimating SERS Properties of Silver-Particle Aggregates through Generalized Mie Theory <b>2006</b> , 87-103		18
93	Raman spectroscopic studies of terthiophenes for molecular electronics. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 25671-7	3.4	17
92	Full optical characterization of single nanoparticles using quantitative phase imaging. <i>Optica</i> , <b>2020</b> , 7, 243	8.6	17

91	Multidimensional Hybridization of Dark Surface Plasmons. <i>ACS Nano</i> , <b>2017</b> , 11, 4265-4274	16.7	16
90	The sodium pump Ena1p provides mechanistic insight into the salt sensitivity of vacuolar protein sorting mutants. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2008</b> , 1783, 974-84	4.9	16
89	Directional scattering and multipolar contributions to optical forces on silicon nanoparticles in focused laser beams. <i>Optics Express</i> , <b>2018</b> , 26, 29074-29085	3.3	16
88	Wavevector-Selective Nonlinear Plasmonic Metasurfaces. <i>Nano Letters</i> , <b>2017</b> , 17, 5258-5263	11.5	15
87	Diffraction from arrays of plasmonic nanoparticles with short-range lateral order. <i>ACS Nano</i> , <b>2012</b> , 6, 9455-65	16.7	14
86	Symmetry-dependent screening of surface plasmons in ultrathin supported films: The case of Al/Si(111). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	14
85	Raman scattering in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> and PrBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> : Indications of pseudogap effects in nonsuperconducting PrBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . <i>Physical Review B</i> , <b>2000</b> , 61, 7049-7054	3.3	14
84	Large-area topography analysis and near-field Raman spectroscopy using bent fibre probes. <i>Journal of Microscopy</i> , <b>2003</b> , 210, 269-73	1.9	13
83	Electron-lattice interactions in the perovskite LaFe <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub> characterized by optical spectroscopy and LDA+U calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	12
82	A Multiscale Approach to Modeling Plasmonic Nanorod Biosensors. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 20692-20701	3.8	12
81	Photothermal DNA Release from Laser-Tweezed Individual Gold Nanomotors Driven by Photon Angular Momentum. <i>ACS Photonics</i> , <b>2018</b> , 5, 2168-2175	6.3	11
80	Phonon Raman scattering in Y <sub>1-x</sub> Pr <sub>x</sub> Ba <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> (x=0-1) and (Y <sub>1-x</sub> Pr <sub>x</sub> ) <sub>2</sub> Ba <sub>4</sub> Cu <sub>7</sub> O <sub>15-<math>\delta</math></sub> (x=0-0.6). <i>Physical Review B</i> , <b>1996</b> , 53, 3590-3597	3.3	11
79	Optical material anisotropy in high-index transition metal dichalcogenide Mie nanoresonators. <i>Optica</i> , <b>2020</b> , 7, 680	8.6	11
78	Selective surface-enhanced Raman scattering detection of Tabun, VX and Cyclosarin nerve agents using 4-pyridine amide oxime functionalized gold nanopillars. <i>Talanta</i> , <b>2020</b> , 211, 120721	6.2	10
77	Fabrication of Monodisperse Colloids of Resonant Spherical Silicon Nanoparticles: Applications in Optical Trapping and Printing. <i>ACS Photonics</i> , <b>2019</b> , 6, 2141-2148	6.3	10
76	Mode-specific directional emission from hybridized particle-on-a-film plasmons. <i>Optics Express</i> , <b>2011</b> , 19, 12856-64	3.3	10
75	Resonant optical absorption in graphite nanostructures. <i>Journal of Optics</i> , <b>2009</b> , 11, 114022		10
74	Photo-induced transformations in 2,2',5,5'-terthiophene thin films on silver. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 1445-50	3.6	10

73	Effects of Zn substitution for Cu on Raman phonon anomalies in double-chain YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> superconductors. <i>Physical Review B</i> , <b>1996</b> , 53, 3566-3572	3.3	10
72	The effects of Co substitutions for Cu in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> on the phonon Raman spectrum. <i>Journal of Alloys and Compounds</i> , <b>1993</b> , 195, 363-366	5.7	10
71	Neutron diffraction studies of TL-2201, TL-2212 and Y-123 doped with strontium. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 623-624	1.3	10
70	Evidence for a scaling of the superconducting gap with T <sub>c</sub> in Pr <sub>x</sub> Y <sub>1-x</sub> Ba <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . <i>Solid State Communications</i> , <b>1993</b> , 87, 907-911	1.6	10
69	Circular dichroism mode splitting and bounds to its enhancement with cavity-plasmon-polaritons. <i>Nanophotonics</i> , <b>2020</b> , 9, 283-293	6.3	10
68	Optically controlled stochastic jumps of individual gold nanorod rotary motors. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	9
67	A combination of concave/convex surfaces for field-enhancement optimization: the indented nanocone. <i>Optics Express</i> , <b>2012</b> , 20, 25201-12	3.3	9
66	Oxygen phonons in orthorhombic and tetragonal Tl <sub>2</sub> Ba <sub>2</sub> CuO <sub>6</sub> investigated by Raman scattering. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 220, 131-137	1.3	9
65	Solar harvesting based on perfect absorbing all-dielectric nanoresonators on a mirror. <i>Optics Express</i> , <b>2019</b> , 27, A967-A980	3.3	9
64	Protein kinase A controls yeast growth in visible light. <i>BMC Biology</i> , <b>2020</b> , 18, 168	7.3	9
63	Surface Interactions of Gold Nanoparticles Optically Trapped against an Interface. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 16406-16414	3.8	8
62	Toward Plasmonic Biosensors Functionalized by a Photoinduced Surface Reaction. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 14751-14758	3.8	8
61	Near-Complete Photon Spin Selectivity in a Metasurface of Anisotropic Plasmonic Antennas. <i>Physical Review X</i> , <b>2015</b> , 5,	9.1	8
60	Anomalous behaviour of the 147 cm <sup>-1</sup> Cu(2) Raman mode in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> under high pressure. Signature of change in the electronic state of the CuO <sub>2</sub> plane. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 230, 199-206	1.3	8
59	Microscopic metavehicles powered and steered by embedded optical metasurfaces. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 970-974	28.7	8
58	Ultrafast Modulation of Thermoplasmonic Nanobubbles in Water. <i>Nano Letters</i> , <b>2019</b> , 19, 8294-8302	11.5	7
57	Quasi-isotropic surface plasmon polariton generation through near-field coupling to a penrose pattern of silver nanoparticles. <i>ACS Nano</i> , <b>2014</b> , 8, 9286-94	16.7	7
56	Metasurface Optical Characterization Using Quadriwave Lateral Shearing Interferometry. <i>ACS Photonics</i> , <b>2021</b> , 8, 603-613	6.3	7

55	Large-Scale Metasurfaces Made by an Exposed Resist. <i>ACS Photonics</i> , <b>2020</b> , 7, 885-892	6.3	6
54	Raman-active phonons in $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4d}$ ( $n=1,2,3$ ) – phonon assignment and charge redistribution effects. <i>Journal of Physics and Chemistry of Solids</i> , <b>1998</b> , 59, 2003-2005	3.9	6
53	Raman-active phonons and their doping dependence in spin-ladder $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$ . <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 338, 161-165	1.3	6
52	Phonon Raman scattering of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+d}$ under hydrostatic pressure. <i>Physical Review B</i> , <b>1999</b> , 59, 8447-8450	3.3	6
51	Changes in the apical oxygen vibrational frequency and $T_c$ due to Sr substitution for Ba in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ , $\text{Tl}_2\text{Ba}_2\text{CaCu}_2\text{O}_{8-x}$ and $\text{Tl}_2\text{Ba}_2\text{CuO}_6-x$ superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 821-822	1.3	6
50	A Gaussian reflective metasurface for advanced wavefront manipulation. <i>Optics Express</i> , <b>2019</b> , 27, 21069-21082	3.3	6
49	In situ resonant Raman scattering and reversible photoinduced structural change in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	5
48	Pressure-induced effects in high- $T_c$ superconductors: Raman scattering as a probe of charge-lattice dynamics under high pressure. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 357-360, 142-145	1.3	5
47	Raman imaging and spectroscopy of single functional erythrocytes: a feasibility study <b>2002</b> , 4614, 20		5
46	Resonant Raman scattering and photoinduced metastability in oxygen-deficient $\text{YBa}_2\text{Cu}_3\text{O}_x$ . <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 338, 157-160	1.3	5
45	Raman-active phonons and their doping dependence in Pb-based cuprate superconductors. <i>Physical Review B</i> , <b>1999</b> , 60, 6316-6319	3.3	5
44	Nanoplasmonic-Nanofluidic Single-Molecule Biosensors for Ultrasmall Sample Volumes. <i>ACS Sensors</i> , <b>2021</b> , 6, 73-82	9.2	5
43	Optical Rotation and Thermometry of Laser Tweezed Silicon Nanorods. <i>Nano Letters</i> , <b>2020</b> , 20, 6494-6501	1.5	5
42	Electromagnetic Energy Distribution in Resonant Quasi Porous Silicon Nanostructures. <i>ACS Photonics</i> , <b>2019</b> , 6, 1706-1714	6.3	4
41	Fano interference in supported gold nanosandwiches with weakly coupled nanodisks. <i>Optics Express</i> , <b>2012</b> , 20, 29646-58	3.3	4
40	Resonant two-phonon Raman scattering as a probe of hole crystal formation in $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ . <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	4
39	Top-down extended meshing algorithm and its applications to Green's tensor nano-optics calculations. <i>Physical Review E</i> , <b>2007</b> , 75, 046702	2.4	4
38	Structural and physical properties of rare-earth- (R-) substituted $\text{RBa}_2\text{Cu}_4\text{O}_8-x$ superconductors. <i>Journal of Alloys and Compounds</i> , <b>1993</b> , 193, 132-134	5.7	4

37	Y-123; the influence of various dopant ions on structure and properties. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 389-390	1.3	4
36	Neutron diffraction studies of TL-2201 and TL-2212 doped with lanthanum. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 625-626	1.3	4
35	Strong Transient Flows Generated by Thermoplasmonic Bubble Nucleation. <i>ACS Nano</i> , <b>2020</b> ,	16.7	3
34	Antenna-Enhanced Fluorescence Correlation Spectroscopy Resolves Calcium-Mediated Lipid-Lipid Interactions. <i>ACS Nano</i> , <b>2018</b> , 12, 3272-3279	16.7	3
33	Counter-Propagating Optical Trapping of Resonant Nanoparticles Using a Uniaxial Crystal. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1800139	8.3	3
32	Investigating Narrow Plasmons in Nanoparticle Arrays Fabricated Using Electron Beam Lithography.. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 872, 1		3
31	High-pressure Raman study of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+d</sub> : indications of strong bond-strength hierarchy and pressure-induced charge transfer. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 2241-2242	1.3	3
30	Anisotropic dynamical scaling in a weakly 3D system: The case of oxygen ordering in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> . <i>Europhysics Letters</i> , <b>2000</b> , 51, 447-453	1.6	3
29	Pr substitution in Y <sub>2</sub> Ba <sub>4</sub> Cu <sub>6+n</sub> O <sub>14+nδ</sub> (n = 0, 1, 2) influence on structure and T <sub>c</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 259, 97-108	1.3	3
28	Is there a correlation between T <sub>c</sub> and the features of the B <sub>1g</sub> Raman continuum in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> ?. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 1095-1096	1.3	3
27	Influence of Zn-doping on the electronic raman scattering of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>1995</b> , 56, 1835	3.9	3
26	Neutron diffraction and Raman spectroscopic studies of Y-123. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 893-894	1.3	3
25	Optical Tweezing and Photothermal Properties of Resonant Dielectric and Metallic Nanospheres. <i>ACS Photonics</i> , <b>2020</b> , 7, 2405-2412	6.3	3
24	Single Molecule Vibrational Fine-structure of Tyrosine Adsorbed on Ag Nano-Crystals <b>2000</b> , 1, 239		3
23	Construction and Operation of a Light-driven Gold Nanorod Rotary Motor System. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	2
22	An Introduction to Plasmonic Refractive Index Sensing <b>2012</b> , 1-26		2
21	Optical Tweezers for Raman Spectroscopy <b>2012</b> , 507-530		2
20	Optical manipulation of plasmonic nanoparticles using laser tweezers <b>2010</b> ,		2

19	Plasmonic and Diffractive Coupling in 2D Arrays of Nanoparticles produced by Electron Beam Lithography. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 951, 20		2
18	Photoinduced effects and oxygen dynamics in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 364-365, 545-548	1.3	2
17	Non-equilibrium properties of an active nanoparticle in a harmonic potential. <i>Nature Communications</i> , <b>2021</b> , 12, 1902	17.4	2
16	Hole mask colloidal lithography on magnetic multilayers for spin torque applications. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072078	0.3	1
15	Resonance Raman scattering as a probe of oxygen dynamics in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>1998</b> , 59, 1988-1990	3.9	1
14	Resonance Raman study of the oxygenation cycle of optically trapped single red blood cells in a microfluidic system <b>2004</b> ,		1
13	Charge redistribution in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> probed by Raman spectroscopy: CuO <sub>2</sub> -plane phonon as a probe of carrier dynamics in the CuO <sub>2</sub> plane. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4988-4990	3.4	1
12	Superconducting gap in Pr <sub>x</sub> Y <sub>1-x</sub> Ba <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> and YBa <sub>2</sub> Cu <sub>3</sub> Sr <sub>y</sub> Cu <sub>4</sub> O <sub>8</sub> probed by infrared phonon self-energies. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1994</b> , 7, 113-116		1
11	Thin-Film Amorphous Silicon Nanopillar Solar Cells: An Investigation of the Optical Potential <b>2017</b> ,		1
10	Metasurfaces: Continuous-Gradient Plasmonic Nanostructures Fabricated by Evaporation on a Partially Exposed Rotating Substrate (Adv. Mater. 23/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 4756	24	1
9	Laser Manipulation of Plasmonic Nanoparticles for SERS and Sensing <b>2012</b> , 153-167		
8	Photoinduced nanodots and pinning effects in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+d</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2006</b> , 445-448, 443-446	1.3	
7	Raman scattering in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> and PrBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> - indications of pseudogap effects in non-superconducting PrBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 2251-2252	1.3	
6	Substitution of Pr for Y in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> and YBa <sub>2</sub> Cu <sub>3.5</sub> O <sub>7.5</sub> - superconductors: Phonon modes and charge transfer effects. <i>Journal of Physics and Chemistry of Solids</i> , <b>1995</b> , 56, 1833	3.9	
5	Change in phonon Raman spectra of Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1-x</sub> Y <sub>x</sub> Cu <sub>2</sub> O <sub>8+d</sub> induced by hole filling and implications for phonon assignments. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1996</b> , 41, 107-110	3.1	
4	Symmetry-dependent phonon interactions in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> superconductors: a Raman and infrared spectroscopic study. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 1091-1092	1.3	
3	High index dielectric metasurfaces and colloidal solutions: from fabrication to application. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1092, 012158	0.3	
2	Direction- and Polarization-Resolved Radiation of Coupled Plasmon Modes on Silver Nanowires. <i>Advanced Photonics Research</i> , <b>2022</b> , 3, 2100300	1.9	

- 1 Estimating SERS Properties of Silver-Particle Aggregates through Generalized Mie Theory **2006**, 87-104