# Mikael Kll

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Direction- and Polarization-Resolved Radiation of Coupled Plasmon Modes on Silver Nanowires. *Advanced Photonics Research*, **2022**, 3, 2100300 | 1.9 | |
| 233 | Nanoplasmonic-Nanofluidic Single-Molecule Biosensors for Ultrasmall Sample Volumes. *ACS Sensors*, **2021**, 6, 73-82 | 9.2 | 5 |
| 232 | Non-equilibrium properties of an active nanoparticle in a harmonic potential. *Nature Communications*, **2021**, 12, 1902 | 17.4 | 2 |
| 231 | Microscopic metavehicles powered and steered by embedded optical metasurfaces. *Nature Nanotechnology*, **2021**, 16, 970-974 | 28.7 | 8 |
| 230 | Metasurface Optical Characterization Using Quadriwave Lateral Shearing Interferometry. *ACS Photonics*, **2021**, 8, 603-613 | 6.3 | 7 |
| 229 | Strong Transient Flows Generated by Thermoplasmonic Bubble Nucleation. *ACS Nano*, **2020**, | 16.7 | 3 |
| 228 | Large-Scale Metasurfaces Made by an Exposed Resist. *ACS Photonics*, **2020**, 7, 885-892 | 6.3 | 6 |
| 227 | Selective surface-enhanced Raman scattering detection of Tabun, VX and Cyclosarin nerve agents using 4-pyridine amide oxime functionalized gold nanopillars. *Talanta*, **2020**, 211, 120721 | 6.2 | 10 |
| 226 | Full optical characterization of single nanoparticles using quantitative phase imaging. *Optica*, **2020**, 7, 243 | 8.6 | 17 |
| 225 | Optical material anisotropy in high-index transition metal dichalcogenide Mie nanoresonators. *Optica*, **2020**, 7, 680 | 8.6 | 11 |
| 224 | Circular dichroism mode splitting and bounds to its enhancement with cavity-plasmon-polaritons. *Nanophotonics*, **2020**, 9, 283-293 | 6.3 | 10 |
| 223 | Nanoscale Inorganic Motors Driven by Light: Principles, Realizations, and Opportunities. *Chemical Reviews*, **2020**, 120, 269-287 | 68.1 | 50 |
| 222 | Optical Tweezing and Photothermal Properties of Resonant Dielectric and Metallic Nanospheres. *ACS Photonics*, **2020**, 7, 2405-2412 | 6.3 | 3 |
| 221 | Protein kinase A controls yeast growth in visible light. *BMC Biology*, **2020**, 18, 168 | 7.3 | 9 |
| 220 | Optical Rotation and Thermometry of Laser Tweezed Silicon Nanorods. *Nano Letters*, **2020**, 20, 6494-6501 | 11.5 | 5 |
| 219 | Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117 | 16.7 | 1000 |
| 218 | Surface Interactions of Gold Nanoparticles Optically Trapped against an Interface. *Journal of Physical Chemistry C*, **2019**, 123, 16406-16414 | 3.8 | 8 |

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| 217 | Electromagnetic Energy Distribution in Resonant Quasi Porous Silicon Nanostructures. *ACS Photonics*, **2019**, 6, 1706-1714 | 6.3 | 4 |
| 216 | Transition metal dichalcogenide nanodisks as high-index dielectric Mie nanoresonators. *Nature Nanotechnology*, **2019**, 14, 679-683 | 28.7 | 112 |
| 215 | Plasmonic versus All-Dielectric Nanoantennas for Refractometric Sensing: A Direct Comparison. *ACS Photonics*, **2019**, 6, 1556-1564 | 6.3 | 35 |
| 214 | Fabrication of Monodisperse Colloids of Resonant Spherical Silicon Nanoparticles: Applications in Optical Trapping and Printing. *ACS Photonics*, **2019**, 6, 2141-2148 | 6.3 | 10 |
| 213 | Ultrafast Modulation of Thermoplasmonic Nanobubbles in Water. *Nano Letters*, **2019**, 19, 8294-8302 | 11.5 | 7 |
| 212 | Solar harvesting based on perfect absorbing all-dielectric nanoresonators on a mirror. *Optics Express*, **2019**, 27, A967-A980 | 3.3 | 9 |
| 211 | A Gaussian reflective metasurface for advanced wavefront manipulation. *Optics Express*, **2019**, 27, 21069-21082 | 3.3 | 7 |
| 210 | Photothermal DNA Release from Laser-Tweezed Individual Gold Nanomotors Driven by Photon Angular Momentum. *ACS Photonics*, **2018**, 5, 2168-2175 | 6.3 | 11 |
| 209 | Large-Scale Fabrication of Shaped High Index Dielectric Nanoparticles on a Substrate and in Solution. *Advanced Optical Materials*, **2018**, 6, 1701253 | 8.1 | 21 |
| 208 | Light-Driven Rotation of Plasmonic Nanomotors. *Advanced Functional Materials*, **2018**, 28, 1706272 | 15.6 | 53 |
| 207 | Antenna-Enhanced Fluorescence Correlation Spectroscopy Resolves Calcium-Mediated Lipid-Lipid Interactions. *ACS Nano*, **2018**, 12, 3272-3279 | 16.7 | 3 |
| 206 | Quantum description and emergence of nonlinearities in strongly coupled single-emitter nanoantenna systems. *Physical Review B*, **2018**, 98, | 3.3 | 23 |
| 205 | Construction and Operation of a Light-driven Gold Nanorod Rotary Motor System. *Journal of Visualized Experiments*, **2018**, | 1.6 | 2 |
| 204 | Optically controlled stochastic jumps of individual gold nanorod rotary motors. *Physical Review B*, **2018**, 98, | 3.3 | 9 |
| 203 | Counter-Propagating Optical Trapping of Resonant Nanoparticles Using a Uniaxial Crystal. *Laser and Photonics Reviews*, **2018**, 12, 1800139 | 8.3 | 3 |
| 202 | Nanostructured Dielectric Fractals on Resonant Plasmonic Metasurfaces for Selective and Sensitive Optical Sensing of Volatile Compounds. *Advanced Materials*, **2018**, 30, e1800931 | 24 | 38 |
| 201 | Anapole-Enhanced Intrinsic Raman Scattering from Silicon Nanodisks. *ACS Photonics*, **2018**, 5, 2730-2736 | 6.3 | 50 |
| 200 | Directional scattering and multipolar contributions to optical forces on silicon nanoparticles in focused laser beams. *Optics Express*, **2018**, 26, 29074-29085 | 3.3 | 16 |

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| 199 | High index dielectric metasurfaces and colloidal solutions: from fabrication to application. *Journal of Physics: Conference Series*, **2018**, 1092, 012158 | 0.3 | |
| 198 | Antibody-Antigen Interaction Dynamics Revealed by Analysis of Single-Molecule Equilibrium Fluctuations on Individual Plasmonic Nanoparticle Biosensors. *ACS Nano*, **2018**, 12, 9958-9965 | 16.7 | 27 |
| 197 | Photothermal Heating of Plasmonic Nanoantennas: Influence on Trapped Particle Dynamics and Colloid Distribution. *ACS Photonics*, **2018**, 5, 2878-2887 | 6.3 | 48 |
| 196 | Light-sensing via hydrogen peroxide and a peroxiredoxin. *Nature Communications*, **2017**, 8, 14791 | 17.4 | 44 |
| 195 | Large-Scale Silicon Nanophotonic Metasurfaces with Polarization Independent Near-Perfect Absorption. *Nano Letters*, **2017**, 17, 3054-3060 | 11.5 | 60 |
| 194 | Multidimensional Hybridization of Dark Surface Plasmons. *ACS Nano*, **2017**, 11, 4265-4274 | 16.7 | 16 |
| 193 | FRET enhancement close to gold nanoparticles positioned in DNA origami constructs. *Nanoscale*, **2017**, 9, 673-683 | 7.7 | 46 |
| 192 | Superior LSPR substrates based on electromagnetic decoupling for on-a-chip high-throughput label-free biosensing. *Light: Science and Applications*, **2017**, 6, e17042 | 16.7 | 45 |
| 191 | Wavevector-Selective Nonlinear Plasmonic Metasurfaces. *Nano Letters*, **2017**, 17, 5258-5263 | 11.5 | 15 |
| 190 | Probing Photothermal Effects on Optically Trapped Gold Nanorods by Simultaneous Plasmon Spectroscopy and Brownian Dynamics Analysis. *ACS Nano*, **2017**, 11, 10053-10061 | 16.7 | 24 |
| 189 | Brownian fluctuations of an optically rotated nanorod. *Optica*, **2017**, 4, 746 | 8.6 | 22 |
| 188 | Thin-Film Amorphous Silicon Nanopillar Solar Cells: An Investigation of the Optical Potential **2017**, | | 1 |
| 187 | Metasurfaces and Colloidal Suspensions Composed of 3D Chiral Si Nanoresonators. *Advanced Materials*, **2017**, 29, 1701352 | 24 | 34 |
| 186 | Hot Electron Generation and Cathodoluminescence Nanoscopy of Chiral Split Ring Resonators. *Nano Letters*, **2016**, 16, 5183-90 | 11.5 | 66 |
| 185 | Continuous-Gradient Plasmonic Nanostructures Fabricated by Evaporation on a Partially Exposed Rotating Substrate. *Advanced Materials*, **2016**, 28, 4658-64 | 24 | 28 |
| 184 | Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. *Nanoscale*, **2016**, 8, 1305-8 | 7.7 | 82 |
| 183 | Directional Light Extinction and Emission in a Metasurface of Tilted Plasmonic Nanopillars. *Nano Letters*, **2016**, 16, 98-104 | 11.5 | 25 |
| 182 | Evaluating Conditions for Strong Coupling between Nanoparticle Plasmons and Organic Dyes Using Scattering and Absorption Spectroscopy. *Journal of Physical Chemistry C*, **2016**, 120, 20588-20596 | 3.8 | 47 |

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| 181 | Metasurfaces: Continuous-Gradient Plasmonic Nanostructures Fabricated by Evaporation on a Partially Exposed Rotating Substrate (Adv. Mater. 23/2016). *Advanced Materials*, **2016**, 28, 4756 | 24 | 1 |
| 180 | A Multiscale Approach to Modeling Plasmonic Nanorod Biosensors. *Journal of Physical Chemistry C*, **2016**, 120, 20692-20701 | 3.8 | 12 |
| 179 | Polarization conversion-based molecular sensing using anisotropic plasmonic metasurfaces. *Nanoscale*, **2016**, 8, 10576-81 | 7.7 | 33 |
| 178 | Schottky barrier formation and band bending revealed by first- principles calculations. *Scientific Reports*, **2015**, 5, 11374 | 4.9 | 62 |
| 177 | Realizing Strong Light-Matter Interactions between Single-Nanoparticle Plasmons and Molecular Excitons at Ambient Conditions. *Physical Review Letters*, **2015**, 114, 157401 | 7.4 | 322 |
| 176 | Explosive and chemical threat detection by surface-enhanced Raman scattering: a review. *Analytica Chimica Acta*, **2015**, 893, 1-13 | 6.6 | 205 |
| 175 | Dimer-on-mirror SERS substrates with attogram sensitivity fabricated by colloidal lithography. *Nanoscale*, **2015**, 7, 9405-10 | 7.7 | 89 |
| 174 | Plasmon Enhanced Internal Photoemission in Antenna-Spacer-Mirror Based Au/TiOâ Nanostructures. *Nano Letters*, **2015**, 15, 4059-65 | 11.5 | 100 |
| 173 | Laser trapping of colloidal metal nanoparticles. *ACS Nano*, **2015**, 9, 3453-69 | 16.7 | 154 |
| 172 | Ultimate Limit of Light Extinction by Nanophotonic Structures. *Nano Letters*, **2015**, 15, 7633-8 | 11.5 | 19 |
| 171 | Interactions of Bacterial Lipopolysaccharides with Gold Nanorod Surfaces Investigated by Refractometric Sensing. *ACS Applied Materials & Interfaces*, **2015**, 7, 24915-25 | 9.5 | 25 |
| 170 | Gold Nanorod Rotary Motors Driven by Resonant Light Scattering. *ACS Nano*, **2015**, 9, 12542-51 | 16.7 | 82 |
| 169 | Near-Complete Photon Spin Selectivity in a Metasurface of Anisotropic Plasmonic Antennas. *Physical Review X*, **2015**, 5, | 9.1 | 8 |
| 168 | Optical magnetism and plasmonic Fano resonances in metal-insulator-metal oligomers. *Nano Letters*, **2015**, 15, 1952-8 | 11.5 | 79 |
| 167 | Directional Nanoplasmonic Antennas for Self-Referenced Refractometric Molecular Analysis. *Journal of Physical Chemistry C*, **2014**, 118, 21075-21080 | 3.8 | 20 |
| 166 | Quasi-isotropic surface plasmon polariton generation through near-field coupling to a penrose pattern of silver nanoparticles. *ACS Nano*, **2014**, 8, 9286-94 | 16.7 | 7 |
| 165 | Macroscopic Layers of Chiral Plasmonic Nanoparticle Oligomers from Colloidal Lithography. *ACS Photonics*, **2014**, 1, 1074-1081 | 6.3 | 65 |
| 164 | A thermal plasmonic sensor platform: resistive heating of nanohole arrays. *Nano Letters*, **2014**, 14, 3544-9 | 11.5 | 34 |

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| 163 | Refractometric biosensing based on optical phase flips in sparse and short-range-ordered nanoplasmonic layers. *Light: Science and Applications*, **2014**, 3, e220-e220 | 16.7 | 76 |
| 162 | Plasmonic particles set into fast orbital motion by an optical vortex beam. *Optics Express*, **2014**, 22, 4349-356 | 3.6 | 46 |
| 161 | Nanogaps for SERS applications. *MRS Bulletin*, **2014**, 39, 163-168 | 3.2 | 78 |
| 160 | Toward Plasmonic Biosensors Functionalized by a Photoinduced Surface Reaction. *Journal of Physical Chemistry C*, **2013**, 117, 14751-14758 | 3.8 | 8 |
| 159 | Mutually synchronized bottom-up multi-nanocontact spin-torque oscillators. *Nature Communications*, **2013**, 4, 2731 | 17.4 | 80 |
| 158 | Plasmon-enhanced enzyme-linked immunosorbent assay on large arrays of individual particles made by electron beam lithography. *ACS Nano*, **2013**, 7, 8824-32 | 16.7 | 25 |
| 157 | Ultrafast spinning of gold nanoparticles in water using circularly polarized light. *Nano Letters*, **2013**, 13, 3129-34 | 11.5 | 103 |
| 156 | Complete light annihilation in an ultrathin layer of gold nanoparticles. *Nano Letters*, **2013**, 13, 3053-8 | 11.5 | 23 |
| 155 | Approaching the strong coupling limit in single plasmonic nanorods interacting with J-aggregates. *Scientific Reports*, **2013**, 3, 3074 | 4.9 | 181 |
| 154 | The yeast transcription factor Crz1 is activated by light in a Ca2+/calcineurin-dependent and PKA-independent manner. *PLoS ONE*, **2013**, 8, e53404 | 3.7 | 23 |
| 153 | Directional scattering and hydrogen sensing by bimetallic Pd-Au nanoantennas. *Nano Letters*, **2012**, 12, 2464-9 | 11.5 | 125 |
| 152 | Diffraction from arrays of plasmonic nanoparticles with short-range lateral order. *ACS Nano*, **2012**, 6, 9455-65 | 16.7 | 14 |
| 151 | An Introduction to Plasmonic Refractive Index Sensing **2012**, 1-26 | | 2 |
| 150 | Optical Tweezers for Raman Spectroscopy **2012**, 507-530 | | 2 |
| 149 | Fano interference between localized plasmons and interface reflections. *ACS Nano*, **2012**, 6, 7533-9 | 16.7 | 42 |
| 148 | Laser Manipulation of Plasmonic Nanoparticles for SERS and Sensing **2012**, 153-167 | | |
| 147 | A simple model for the resonance shift of localized plasmons due to dielectric particle adhesion. *Optics Express*, **2012**, 20, 524-33 | 3.3 | 24 |
| 146 | Simulating light scattering from supported plasmonic nanowires. *Optics Express*, **2012**, 20, 10816-26 | 3.3 | 23 |

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| 145 | Fano interference in supported gold nanosandwiches with weakly coupled nanodisks. *Optics Express*, **2012**, 20, 29646-58 | 3.3 | 4 |
| 144 | A combination of concave/convex surfaces for field-enhancement optimization: the indented nanocone. *Optics Express*, **2012**, 20, 25201-12 | 3.3 | 9 |
| 143 | Plasmon hybridization reveals the interaction between individual colloidal gold nanoparticles confined in an optical potential well. *Nano Letters*, **2011**, 11, 4505-8 | 11.5 | 40 |
| 142 | Cascaded logic gates in nanophotonic plasmon networks. *Nature Communications*, **2011**, 2, 387 | 17.4 | 337 |
| 141 | A bimetallic nanoantenna for directional colour routing. *Nature Communications*, **2011**, 2, 481 | 17.4 | 259 |
| 140 | Optical response of supported gold nanodisks. *Optics Express*, **2011**, 19, 12093-107 | 3.3 | 26 |
| 139 | Mode-specific directional emission from hybridized particle-on-a-film plasmons. *Optics Express*, **2011**, 19, 12856-64 | 3.3 | 10 |
| 138 | Plasmon-enhanced colorimetric ELISA with single molecule sensitivity. *Nano Letters*, **2011**, 11, 1826-30 | 11.5 | 152 |
| 137 | Continuous light exposure causes cumulative stress that affects the localization oscillation dynamics of the transcription factor Msn2p. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2011**, 1813, 358-66 | 4.9 | 21 |
| 136 | Unidirectional broadband light emission from supported plasmonic nanowires. *Nano Letters*, **2011**, 11, 706-11 | 11.5 | 186 |
| 135 | Angular distribution of surface-enhanced Raman scattering from individual au nanoparticle aggregates. *ACS Nano*, **2011**, 5, 2036-41 | 16.7 | 73 |
| 134 | Symmetry-dependent screening of surface plasmons in ultrathin supported films: The case of Al/Si(111). *Physical Review B*, **2011**, 83, | 3.3 | 14 |
| 133 | Coloring fluorescence emission with silver nanowires. *Applied Physics Letters*, **2010**, 96, 103114 | 3.4 | 46 |
| 132 | Sulfate assimilation mediates tellurite reduction and toxicity in Saccharomyces cerevisiae. *Eukaryotic Cell*, **2010**, 9, 1635-47 | | 18 |
| 131 | Optical Forces in Plasmonic Nanoparticle Dimers. *Journal of Physical Chemistry C*, **2010**, 114, 7472-7479 | 3.8 | 69 |
| 130 | Alignment, rotation, and spinning of single plasmonic nanoparticles and nanowires using polarization dependent optical forces. *Nano Letters*, **2010**, 10, 268-73 | 11.5 | 197 |
| 129 | Optical manipulation of plasmonic nanoparticles using laser tweezers **2010**, | | 2 |
| 128 | Hole mask colloidal lithography on magnetic multilayers for spin torque applications. *Journal of Physics: Conference Series*, **2010**, 200, 072078 | 0.3 | 1 |

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| 127 | Investigations on light-induced stress in fluorescence microscopy using nuclear localization of the transcription factor Msn2p as a reporter. *FEMS Yeast Research*, **2009**, 9, 875-84 | 3.1 | 25 |
| 126 | Unidirectional ultracompact optical nanoantennas. *Nano Letters*, **2009**, 9, 2343-9 | 11.5 | 154 |
| 125 | Sensitivity enhancement of nanoplasmonic sensors in low refractive index substrates. *Optics Express*, **2009**, 17, 2015-23 | 3.3 | 60 |
| 124 | Resonant optical absorption in graphite nanostructures. *Journal of Optics*, **2009**, 11, 114022 | | 10 |
| 123 | High-resolution microspectroscopy of plasmonic nanostructures for miniaturized biosensing. *Analytical Chemistry*, **2009**, 81, 6572-80 | 7.8 | 71 |
| 122 | Ultrahigh sensitivity made simple: nanoplasmonic label-free biosensing with an extremely low limit-of-detection for bacterial and cancer diagnostics. *Nanotechnology*, **2009**, 20, 434015 | 3.4 | 126 |
| 121 | Intrinsic Fano interference of localized plasmons in Pd nanoparticles. *Nano Letters*, **2009**, 9, 882-6 | 11.5 | 85 |
| 120 | Electron-lattice interactions in the perovskite LaFe0.5Cr0.5O3 characterized by optical spectroscopy and LDA+U calculations. *Physical Review B*, **2009**, 80, | 3.3 | 12 |
| 119 | Optical aggregation of metal nanoparticles in a microfluidic channel for surface-enhanced Raman scattering analysis. *Lab on A Chip*, **2009**, 9, 193-5 | 7.2 | 106 |
| 118 | Refractometric sensing using propagating versus localized surface plasmons: a direct comparison. *Nano Letters*, **2009**, 9, 4428-33 | 11.5 | 275 |
| 117 | The sodium pump Ena1p provides mechanistic insight into the salt sensitivity of vacuolar protein sorting mutants. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2008**, 1783, 974-84 | 4.9 | 16 |
| 116 | Plasmonic Properties of Silver Trimers with Trigonal Symmetry Fabricated by Electron-Beam Lithography. *Journal of Physical Chemistry C*, **2008**, 112, 14313-14317 | 3.8 | 65 |
| 115 | Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution. *Physical Review B*, **2008**, 78, | 3.3 | 58 |
| 114 | GreenR tensor calculations of plasmon resonances of single holes and hole pairs in thin gold films. *New Journal of Physics*, **2008**, 10, 105004 | 2.9 | 24 |
| 113 | Structural asymmetry and induced optical magnetism in plasmonic nanosandwiches. *Journal of the Optical Society of America B: Optical Physics*, **2008**, 25, 659 | 1.7 | 55 |
| 112 | Shape effects in the localized surface plasmon resonance of single nanoholes in thin metal films. *Optics Express*, **2008**, 16, 5609-16 | 3.3 | 57 |
| 111 | Optically controlled interparticle distance tuning and welding of single gold nanoparticle pairs by photochemical metal deposition. *Optics Express*, **2008**, 16, 12362-71 | 3.3 | 44 |
| 110 | Image analysis algorithms for cell contour recognition in budding yeast. *Optics Express*, **2008**, 16, 12943-57 | 3.3 | 37 |

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| 109 | Enhanced nanoplasmonic optical sensors with reduced substrate effect. *Nano Letters*, **2008**, 8, 3893-8 | 11.5 | 186 |
| 108 | Optical forces on interacting plasmonic nanoparticles in a focused Gaussian beam. *Physical Review B*, **2008**, 77, | 3.3 | 36 |
| 107 | Photochemical Tuning of Plasmon Resonances in Single Gold Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 4920-4924 | 3.8 | 30 |
| 106 | Plasmonic Au/Co/Au nanosandwiches with enhanced magneto-optical activity. *Small*, **2008**, 4, 202-5 | 11 | 199 |
| 105 | Nanohole Plasmons in Optically Thin Gold Films. *Journal of Physical Chemistry C*, **2007**, 111, 1207-1212 | 3.8 | 136 |
| 104 | Gold-silica-gold nanosandwiches: tunable bimodal plasmonic resonators. *Small*, **2007**, 3, 294-9 | 11 | 116 |
| 103 | Optical antennas based on coupled nanoholes in thin metal films. *Nature Physics*, **2007**, 3, 884-889 | 16.2 | 90 |
| 102 | Long-Range Refractive Index Sensing Using Plasmonic Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 11806-11810 | 3.8 | 71 |
| 101 | Top-down extended meshing algorithm and its applications to GreenÞ tensor nano-optics calculations. *Physical Review E*, **2007**, 75, 046702 | 2.4 | 4 |
| 100 | Nanometric control of the distance between plasmonic nanoparticles using optical forces. *Optics Express*, **2007**, 15, 14914-20 | 3.3 | 23 |
| 99 | Sensing characteristics of NIR localized surface plasmon resonances in gold nanorings for application as ultrasensitive biosensors. *Nano Letters*, **2007**, 7, 1256-63 | 11.5 | 603 |
| 98 | Franck-Condon higher order lattice excitations in the LaFe1âCrxO3 (x=0, 0.1, 0.5, 0.9, 1.0) perovskites due to Fe-Cr charge transfer effects. *Physical Review B*, **2007**, 75, | 3.3 | 44 |
| 97 | Plasmonic and Diffractive Coupling in 2D Arrays of Nanoparticles produced by Electron Beam Lithography. *Materials Research Society Symposia Proceedings*, **2006**, 951, 20 | | 2 |
| 96 | Resonant two-phonon Raman scattering as a probe of hole crystal formation in Sr14âCaxCu24O41. *Physical Review B*, **2006**, 74, | 3.3 | 4 |
| 95 | Resonant coupling between localized plasmons and anisotropic molecular coatings in ellipsoidal metal nanoparticles. *Physical Review B*, **2006**, 73, | 3.3 | 82 |
| 94 | Photo-induced transformations in 2,2Þ5Þ,2ÞÞterthiophene thin films on silver. *Physical Chemistry Chemical Physics*, **2006**, 8, 1445-50 | 3.6 | 10 |
| 93 | Raman spectroscopic studies of terthiophenes for molecular electronics. *Journal of Physical Chemistry B*, **2006**, 110, 25671-7 | 3.4 | 17 |
| 92 | Magnetic-field enhancement in gold nanosandwiches. *Optics Express*, **2006**, 14, 8240-6 | 3.3 | 94 |

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| 91 | Creating hot nanoparticle pairs for surface-enhanced Raman spectroscopy through optical manipulation. *Nano Letters*, **2006**, 6, 2639-41 | 11.5 | 221 |
| 90 | On the importance of optical forces in surface-enhanced Raman scattering (SERS). *Faraday Discussions*, **2006**, 132, 35-44; discussion 85-94 | 3.6 | 40 |
| 89 | Photoinduced nanodots and pinning effects in Bi2Sr2CaCu2O8+d. *Physica C: Superconductivity and Its Applications*, **2006**, 445-448, 443-446 | 1.3 | |
| 88 | Estimating SERS Properties of Silver-Particle Aggregates through Generalized Mie Theory **2006**, 87-103 | | 18 |
| 87 | Estimating SERS Properties of Silver-Particle Aggregates through Generalized Mie Theory **2006**, 87-104 | | |
| 86 | Surface-enhanced Raman scattering and fluorescence near metal nanoparticles. *Physical Review B*, **2005**, 72, | 3.3 | 247 |
| 85 | A microfluidic system enabling Raman measurements of the oxygenation cycle in single optically trapped red blood cells. *Lab on A Chip*, **2005**, 5, 431-6 | 7.2 | 98 |
| 84 | Controlling plasmon line shapes through diffractive coupling in linear arrays of cylindrical nanoparticles fabricated by electron beam lithography. *Nano Letters*, **2005**, 5, 1065-70 | 11.5 | 373 |
| 83 | Confined plasmons in nanofabricated single silver particle pairs: experimental observations of strong interparticle interactions. *Journal of Physical Chemistry B*, **2005**, 109, 1079-87 | 3.4 | 447 |
| 82 | Localized surface plasmon resonance sensing of lipid-membrane-mediated biorecognition events. *Journal of the American Chemical Society*, **2005**, 127, 5043-8 | 16.4 | 253 |
| 81 | Plasmons in the metallic nanoparticle-film system as a tunable impurity problem. *Nano Letters*, **2005**, 5, 2009-13 | 11.5 | 140 |
| 80 | Plasmonic sensing characteristics of single nanometric holes. *Nano Letters*, **2005**, 5, 2335-9 | 11.5 | 218 |
| 79 | Field enhancement and molecular response in surface-enhanced Raman scattering and fluorescence spectroscopy. *Journal of Raman Spectroscopy*, **2005**, 36, 510-514 | 2.3 | 72 |
| 78 | Order-disorder-order phase transitions in the pyrochlore superconductor Cd2Re2O7. *Physical Review B*, **2005**, 71, | 3.3 | 19 |
| 77 | In situ resonant Raman scattering and reversible photoinduced structural change in YBa2Cu3O6+x. *Physical Review B*, **2005**, 71, | 3.3 | 5 |
| 76 | Investigating Narrow Plasmons in Nanoparticle Arrays Fabricated Using Electron Beam Lithography.. *Materials Research Society Symposia Proceedings*, **2005**, 872, 1 | | 3 |
| 75 | Resonance Raman spectroscopy of optically trapped functional erythrocytes. *Journal of Biomedical Optics*, **2004**, 9, 593-600 | 3.5 | 72 |
| 74 | Light scattering in gold nanorings. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 89, 11-16 | 2.1 | 31 |

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| 73 | Direct Observation of Heterogeneous Photochemistry on Aggregated Ag Nanocrystals Using Raman Spectroscopy: The Case of Photoinduced Degradation of Aromatic Amino Acids. *Journal of Physical Chemistry A*, **2004**, 108, 4187-4193 | 2.8 | 60 |
| 72 | Optical Spectroscopy of Nanometric Holes in Thin Gold Films. *Nano Letters*, **2004**, 4, 1003-1007 | 11.5 | 252 |
| 71 | Unified treatment of fluorescence and raman scattering processes near metal surfaces. *Physical Review Letters*, **2004**, 93, 243002 | 7.4 | 169 |
| 70 | Optical Spectroscopy of Single Trapped Metal Nanoparticles in Solution. *Nano Letters*, **2004**, 4, 115-118 | 11.5 | 156 |
| 69 | Resonance Raman study of the oxygenation cycle of optically trapped single red blood cells in a microfluidic system **2004**, | | 1 |
| 68 | Nanoparticle Optics: The Importance of Radiative Dipole Coupling in Two-Dimensional Nanoparticle Arraysâ*Journal of Physical Chemistry B*, **2003**, 107, 7337-7342 | 3.4 | 604 |
| 67 | Optical Properties of Short Range Ordered Arrays of Nanometer Gold Disks Prepared by Colloidal Lithography. *Journal of Physical Chemistry B*, **2003**, 107, 5768-5772 | 3.4 | 295 |
| 66 | Polarization-dependent surface-enhanced Raman spectroscopy of isolated silver nanoaggregates. *ChemPhysChem*, **2003**, 4, 1001-5 | 3.2 | 160 |
| 65 | Large-area topography analysis and near-field Raman spectroscopy using bent fibre probes. *Journal of Microscopy*, **2003**, 210, 269-73 | 1.9 | 13 |
| 64 | Surface-Based Gold-Nanoparticle Sensor for Specific and Quantitative DNA Hybridization Detection. *Langmuir*, **2003**, 19, 10414-10419 | 4 | 93 |
| 63 | Oxygen-ordering superstructures in underdoped YBa2Cu3O6+x studied by hard x-ray diffraction. *Physical Review B*, **2003**, 68, | 3.3 | 64 |
| 62 | Laser-Induced Growth and Deposition of Noble-Metal Nanoparticles for Surface-Enhanced Raman Scattering. *Nano Letters*, **2003**, 3, 593-596 | 11.5 | 92 |
| 61 | Optical properties of gold nanorings. *Physical Review Letters*, **2003**, 90, 057401 | 7.4 | 842 |
| 60 | Importance of substrate and photo-induced effects in Raman spectroscopy of single functional erythrocytes. *Journal of Biomedical Optics*, **2003**, 8, 173-8 | 3.5 | 41 |
| 59 | Laser-induced growth of Ag nanoparticles from aqueous solutions. *ChemPhysChem*, **2002**, 3, 116-9 | 3.2 | 56 |
| 58 | Modeling the optical response of nanoparticle-based surface plasmon resonance sensors. *Sensors and Actuators B: Chemical*, **2002**, 87, 244-249 | 8.5 | 136 |
| 57 | Raman imaging and spectroscopy of single functional erythrocytes: a feasibility study **2002**, 4614, 20 | | 5 |
| 56 | Phase-sensitive near-field imaging of metal nanoparticles. *Journal of Applied Physics*, **2002**, 92, 6211-6214 | 4.5 | 31 |

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