Javier Aizpurua

List of Publications by Citations

197 papers	20,080 citations	67 h-index	140 g-index
227 ext. papers	23,060 ext. citations	8.2 avg, IF	6.85 L-index

#	Paper	IF	Citations
197	Electromagnetic contributions to single-molecule sensitivity in surface-enhanced raman scattering. *Physical Review E*, **2000**, 62, 4318-24	2.4	1348
196	Chemical mapping of a single molecule by plasmon-enhanced Raman scattering. *Nature*, **2013**, 498, 82-6	50.4	1186
195	Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117	16.7	1000
194	Revealing the quantum regime in tunnelling plasmonics. *Nature*, **2012**, 491, 574-7	50.4	788
193	Bridging quantum and classical plasmonics with a quantum-corrected model. *Nature Communications*, **2012**, 3, 825	17.4	675
192	Metallic nanoparticle arrays: a common substrate for both surface-enhanced Raman scattering and surface-enhanced infrared absorption. *ACS Nano*, **2008**, 2, 707-18	16.7	665
191	Plasmons in nearly touching metallic nanoparticles: singular response in the limit of touching dimers. *Optics Express*, **2006**, 14, 9988-99	3.3	658
190	Resonant plasmonic and vibrational coupling in a tailored nanoantenna for infrared detection. *Physical Review Letters*, **2008**, 101, 157403	7.4	532
189	Strong magnetic response of submicron silicon particles in the infrared. *Optics Express*, **2011**, 19, 4815-26	3.3	525
188	Metal-nanoparticle plasmonics. *Laser and Photonics Reviews*, **2008**, 2, 136-159	8.3	519
187	Optical properties of coupled metallic nanorods for field-enhanced spectroscopy. *Physical Review B* , **2005**, 71,	3.3	472
186	Quantum mechanical effects in plasmonic structures with subnanometre gaps. *Nature Communications*, **2016**, 7, 11495	17.4	453
185	Close encounters between two nanoshells. *Nano Letters*, **2008**, 8, 1212-8	11.5	421
184	Single-molecule optomechanics in "picocavities". *Science*, **2016**, 354, 726-729	33.3	414
183	Quantum plasmonics: nonlinear effects in the field enhancement of a plasmonic nanoparticle dimer. *Nano Letters*, **2012**, 12, 1333-9	11.5	378
182	Controlling the near-field oscillations of loaded plasmonic nanoantennas. *Nature Photonics*, **2009**, 3, 287-291	33.9	365
181	Terahertz near-field nanoscopy of mobile carriers in single semiconductor nanodevices. *Nano Letters*, **2008**, 8, 3766-70	11.5	359

180	Mapping the plasmon resonances of metallic nanoantennas. *Nano Letters*, **2008**, 8, 631-6	11.5	319
179	Low-Loss Electric and Magnetic Field-Enhanced Spectroscopy with Subwavelength Silicon Dimers. *Journal of Physical Chemistry C*, **2013**, 117, 13573-13584	3.8	293
178	Extreme nanophotonics from ultrathin metallic gaps. *Nature Materials*, **2019**, 18, 668-678	27	278
177	Precise subnanometer plasmonic junctions for SERS within gold nanoparticle assemblies using cucurbit[n]uril "glue". *ACS Nano*, **2011**, 5, 3878-87	16.7	272
176	All-optical control of a single plasmonic nanoantenna-ITO hybrid. *Nano Letters*, **2011**, 11, 2457-63	11.5	220
175	Atomistic near-field nanoplasmonics: reaching atomic-scale resolution in nanooptics. *Nano Letters*, **2015**, 15, 3410-9	11.5	205
174	Optical spectroscopy of conductive junctions in plasmonic cavities. *Nano Letters*, **2010**, 10, 3090-5	11.5	187
173	Controlling subnanometer gaps in plasmonic dimers using graphene. *Nano Letters*, **2013**, 13, 5033-8	11.5	179
172	Resolving the electromagnetic mechanism of surface-enhanced light scattering at single hot spots. *Nature Communications*, **2012**, 3, 684	17.4	179
171	Boron nitride nanoresonators for phonon-enhanced molecular vibrational spectroscopy at the strong coupling limit. *Light: Science and Applications*, **2018**, 7, 17172	16.7	176
170	Roadmap on plasmonics. *Journal of Optics (United Kingdom)*, **2018**, 20, 043001	1.7	174
169	Robust subnanometric plasmon ruler by rescaling of the nonlocal optical response. *Physical Review Letters*, **2013**, 110, 263901	7.4	173
168	Electromagnetic field enhancement in TERS configurations. *Journal of Raman Spectroscopy*, **2009**, 40, 1343-1348	2.3	167
167	Resonances of individual metal nanowires in the infrared. *Applied Physics Letters*, **2006**, 89, 253104	3.4	156
166	Plasmonic nickel nanoantennas. *Small*, **2011**, 7, 2341-7	11	150
165	Coherent imaging of nanoscale plasmon patterns with a carbon nanotube optical probe. *Applied Physics Letters*, **2003**, 83, 368-370	3.4	141
164	Dielectric antennas--a suitable platform for controlling magnetic dipolar emission. *Optics Express*, **2012**, 20, 13636-50	3.3	139
163	Nanohole Plasmons in Optically Thin Gold Films. *Journal of Physical Chemistry C*, **2007**, 111, 1207-1212	3.8	136

162	Experimental verification of the spectral shift between near- and far-field peak intensities of plasmonic infrared nanoantennas. *Physical Review Letters*, **2013**, 110, 203902	7.4	134
161	Nanooptics of molecular-shunted plasmonic nanojunctions. *Nano Letters*, **2015**, 15, 669-74	11.5	133
160	Photoconductively loaded plasmonic nanoantenna as building block for ultracompact optical switches. *Nano Letters*, **2010**, 10, 1741-6	11.5	128
159	Phase-resolved mapping of the near-field vector and polarization state in nanoscale antenna gaps. *Nano Letters*, **2010**, 10, 3524-8	11.5	128
158	Quantum effects and nonlocality in strongly coupled plasmonic nanowire dimers. *Optics Express*, **2013**, 21, 27306-25	3.3	127
157	Multipolar plasmon resonances in individual ag nanorice. *ACS Nano*, **2010**, 4, 2649-54	16.7	125
156	A classical treatment of optical tunneling in plasmonic gaps: extending the quantum corrected model to practical situations. *Faraday Discussions*, **2015**, 178, 151-83	3.6	119
155	Threading plasmonic nanoparticle strings with light. *Nature Communications*, **2014**, 5, 4568	17.4	118
154	Sub-nanometre control of the coherent interaction between a single molecule and a plasmonic nanocavity. *Nature Communications*, **2017**, 8, 15225	17.4	113
153	Electromagnetic Resonances of Silicon Nanoparticle Dimers in the Visible. *ACS Photonics*, **2015**, 2, 913-920	6.3	110
152	Plasmonic photoluminescence for recovering native chemical information from surface-enhanced Raman scattering. *Nature Communications*, **2017**, 8, 14891	17.4	106
151	Nanooptics of Plasmonic Nanomatryoshkas: Shrinking the Size of a Core-Shell Junction to Subnanometer. *Nano Letters*, **2015**, 15, 6419-28	11.5	106
150	Rabi Splitting in Photoluminescence Spectra of Hybrid Systems of Gold Nanorods and J-Aggregates. *Journal of Physical Chemistry Letters*, **2016**, 7, 354-62	6.4	104
149	Atomic-Scale Lightning Rod Effect in Plasmonic Picocavities: A Classical View to a Quantum Effect. *ACS Nano*, **2018**, 12, 585-595	16.7	99
148	Coupling of Molecular Emitters and Plasmonic Cavities beyond the Point-Dipole Approximation. *Nano Letters*, **2018**, 18, 2358-2364	11.5	98
147	Quantum Mechanical Description of Raman Scattering from Molecules in Plasmonic Cavities. *ACS Nano*, **2016**, 10, 6291-8	16.7	97
146	A classical description of subnanometer resolution by atomic features in metallic structures. *Nanoscale*, **2017**, 9, 391-401	7.7	95
145	Influence of the tip in near-field imaging of nanoparticle plasmonic modes: Weak and strong coupling regimes. *Physical Review B*, **2009**, 79,	3.3	95

144	Hybridization of plasmonic antenna and cavity modes: Extreme optics of nanoparticle-on-mirror nanogaps. *Physical Review A*, **2015**, 92,	2.6	92
143	Substrate-enhanced infrared near-field spectroscopy. *Optics Express*, **2008**, 16, 1529-45	3.3	91
142	The Morphology of Narrow Gaps Modifies the Plasmonic Response. *ACS Photonics*, **2015**, 2, 295-305	6.3	89
141	Probing low-energy hyperbolic polaritons in van der Waals crystals with an electron microscope. *Nature Communications*, **2017**, 8, 95	17.4	86
140	Monitoring morphological changes in 2D monolayer semiconductors using atom-thick plasmonic nanocavities. *ACS Nano*, **2015**, 9, 825-30	16.7	86
139	Longitudinal and transverse coupling in infrared gold nanoantenna arrays: long range versus short range interaction regimes. *Optics Express*, **2011**, 19, 15047-61	3.3	85
138	Strain effects on the electronic structure of strongly coupled self-assembled InAs□GaAs quantum dots: Tight-binding approach. *Physical Review B*, **2006**, 74,	3.3	83
137	Amplitude- and Phase-Resolved Near-Field Mapping of Infrared Antenna Modes by Transmission-Mode Scattering-Type Near-Field Microscopy□*Journal of Physical Chemistry C*, **2010**, 114, 7341-7345	3.8	75
136	Plasmonic nanobilliards: controlling nanoparticle movement using forces induced by swift electrons. *Nano Letters*, **2011**, 11, 3388-93	11.5	69
135	Using local fields to tailor hybrid quantum-dot/metal nanoparticle systems. *Physical Review B*, **2011**, 83,	3.3	69
134	Infrared imaging of single nanoparticles via strong field enhancement in a scanning nanogap. *Physical Review Letters*, **2006**, 97, 060801	7.4	69
133	Sub-nanometre resolution in single-molecule photoluminescence imaging. *Nature Photonics*, **2020**, 14, 693-699	33.9	69
132	Mapping the near fields of plasmonic nanoantennas by scattering-type scanning near-field optical microscopy. *Laser and Photonics Reviews*, **2015**, 9, 637-649	8.3	68
131	How chain plasmons govern the optical response in strongly interacting self-assembled metallic clusters of nanoparticles. *Langmuir*, **2012**, 28, 8881-90	4	68
130	Antenna-assisted picosecond control of nanoscale phase transition in vanadium dioxide. *Light: Science and Applications*, **2016**, 5, e16173	16.7	66
129	Ultrafast nonlinear control of progressively loaded, single plasmonic nanoantennas fabricated using helium ion milling. *Nano Letters*, **2013**, 13, 5647-53	11.5	62
128	Importance of Plasmonic Scattering for an Optimal Enhancement of Vibrational Absorption in SEIRA with Linear Metallic Antennas. *Journal of Physical Chemistry C*, **2015**, 119, 26652-26662	3.8	60
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124	Image potential in scanning transmission electron microscopy. *Progress in Surface Science*, **2000**, 65, 1-646.6		51
123	Irreversible thermochromic behavior in gold and silver nanorod/polymeric ionic liquid nanocomposite films. *ACS Applied Materials & Interfaces*, **2009**, 1, 348-52	9.5	50
122	Visualizing the near-field coupling and interference of bonding and anti-bonding modes in infrared dimer nanoantennas. *Optics Express*, **2013**, 21, 1270-80	3.3	49
121	Plexciton quenching by resonant electron transfer from quantum emitter to metallic nanoantenna. *Nano Letters*, **2013**, 13, 5972-8	11.5	47
120	Nonlocal effects in the plasmons of nanowires and nanocavities excited by fast electron beams. *Physical Review B*, **2008**, 78,	3.3	46
119	Generalized circuit model for coupled plasmonic systems. *Optics Express*, **2015**, 23, 33255-69	3.3	45
118	Effect of mechanical strain on the optical properties of quantum dots: controlling exciton shape, orientation, and phase with a mechanical strain. *Physical Review Letters*, **2010**, 105, 067404	7.4	45
117	Single-molecule tautomerization tracking through space- and time-resolved fluorescence spectroscopy. *Nature Nanotechnology*, **2020**, 15, 207-211	28.7	44
116	Evolution of Plasmonic Metamolecule Modes in the Quantum Tunneling Regime. *ACS Nano*, **2016**, 10, 1346-54	16.7	44
115	Anomalous Spectral Shift of Near- and Far-Field Plasmonic Resonances in Nanogaps. *ACS Photonics*, **2016**, 3, 471-477	6.3	43
114	Anisotropic Nanoantenna-Based Magnetoplasmonic Crystals for Highly Enhanced and Tunable Magneto-Optical Activity. *Nano Letters*, **2016**, 16, 2533-42	11.5	43
113	Real-Space Mapping of the Chiral Near-Field Distributions in Spiral Antennas and Planar Metasurfaces. *Nano Letters*, **2016**, 16, 663-70	11.5	43
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111	Multiscale Theoretical Modeling of Plasmonic Sensing of Hydrogen Uptake in Palladium Nanodisks. *Journal of Physical Chemistry Letters*, **2012**, 3, 2556-61	6.4	43
110	Optical characterization of charge transfer and bonding dimer plasmons in linked interparticle gaps. *New Journal of Physics*, **2011**, 13, 083013	2.9	43
109	Sub-femtosecond electron transport in a nanoscale gap. *Nature Physics*, **2020**, 16, 341-345	16.2	42

108	Gold nanorods with sub-nanometer separation using cucurbit[n]uril for SERS applications. *Small*, **2014**, 10, 4298-303	11	41
107	Plasmonic Response of Metallic Nanojunctions Driven by Single Atom Motion: Quantum Transport Revealed in Optics. *ACS Photonics*, **2016**, 3, 269-277	6.3	39
106	Interference, coupling, and nonlinear control of high-order modes in single asymmetric nanoantennas. *ACS Nano*, **2012**, 6, 6462-70	16.7	37
105	Gold nanoring trimers: a versatile structure for infrared sensing. *Optics Express*, **2010**, 18, 22271-82	3.3	36
104	Plasmon-Assisted Nd(3+)-Based Solid-State Nanolaser. *Nano Letters*, **2016**, 16, 895-9	11.5	35
103	Detection of deep-subwavelength dielectric layers at terahertz frequencies using semiconductor plasmonic resonators. *Optics Express*, **2012**, 20, 5052-60	3.3	35
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101	Plasmonic excitation and manipulation with an electron beam. *MRS Bulletin*, **2012**, 37, 752-760	3.2	33
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99	Vibrational Spectroscopy of Water with High Spatial Resolution. *Advanced Materials*, **2018**, 30, e1802702	24	32
98	Plasmonic properties of gold ring-disk nano-resonators: fine shape details matter. *Optics Express*, **2011**, 19, 5587-95	3.3	32
97	Acousto-plasmonic hot spots in metallic nano-objects. *Nano Letters*, **2009**, 9, 3732-8	11.5	32
96	Pulsed Molecular Optomechanics in Plasmonic Nanocavities: From Nonlinear Vibrational Instabilities to Bond-Breaking. *Physical Review X*, **2018**, 8,	9.1	31
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94	Light scattering in gold nanorings. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 89, 11-16	2.1	31
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92	Interparticle coupling effects in surface-enhanced Raman scattering **2001**,		30
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90	Plasmon Response and Electron Dynamics in Charged Metallic Nanoparticles. *Langmuir*, **2016**, 32, 2829-40	4	29
89	Linking classical and molecular optomechanics descriptions of SERS. *Faraday Discussions*, **2017**, 205, 31-65	3.6	28
88	Defect-induced activation of symmetry forbidden infrared resonances in individual metallic nanorods. *Applied Physics Letters*, **2010**, 96, 213111	3.4	28
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85	Isotropically polarized speckle patterns. *Physical Review Letters*, **2015**, 114, 113902	7.4	26
84	Antenna resonances in low aspect ratio semiconductor nanowires. *Optics Express*, **2015**, 23, 22771-87	3.3	25
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80	Role of electron tunneling in the nonlinear response of plasmonic nanogaps. *Physical Review B*, **2018**, 97,	3.3	21
79	Theory of SERS enhancement: general discussion. *Faraday Discussions*, **2017**, 205, 173-211	3.6	21
78	Controlling the optics of quantum dots with nanomechanical strain. *Physical Review B*, **2011**, 84,	3.3	21
77	Influence of a dielectric layer on photon emission induced by a scanning tunneling microscope. *Journal of Chemical Physics*, **2009**, 130, 084706	3.9	20
76	Gold Spiky Nanodumbbells: Anisotropy in Gold Nanostars. *Particle and Particle Systems Characterization*, **2014**, 31, 77-80	3.1	19
75	Control of single emitter radiation by polarization- and position-dependent activation of dark antenna modes. *Optics Letters*, **2012**, 37, 1017-9	3	19
74	Complex plasmon-exciton dynamics revealed through quantum dot light emission in a nanocavity. *Nature Communications*, **2021**, 12, 1310	17.4	19
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69	Theory of hot electrons: general discussion. *Faraday Discussions*, **2019**, 214, 245-281	3.6	15
68	Flickering nanometre-scale disorder in a crystal lattice tracked by plasmonic flare light emission. *Nature Communications*, **2020**, 11, 682	17.4	14
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64	Metamaterial Platforms for Spintronic Modulation of Mid-Infrared Response under Very Weak Magnetic Field. *ACS Photonics*, **2018**, 5, 3956-3961	6.3	14
63	Dynamics of hot electron generation in metallic nanostructures: general discussion. *Faraday Discussions*, **2019**, 214, 123-146	3.6	13
62	Plasmonic and new plasmonic materials: general discussion. *Faraday Discussions*, **2015**, 178, 123-49	3.6	13
61	Gold- and Silver-Coated Barium Titanate Nanocomposites as Probes for Two-Photon Multimodal Microspectroscopy. *Advanced Functional Materials*, **2019**, 29, 1904289	15.6	13
60	Optical properties and sensing in plexcitonic nanocavities: from simple molecular linkers to molecular aggregate layers. *Nanotechnology*, **2014**, 25, 035201	3.4	13
59	Optical response of threaded chain plasmons: from capacitive chains to continuous nanorods. *Optics Express*, **2014**, 22, 23851-60	3.3	13
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57	Vibrational electron energy loss spectroscopy in truncated dielectric slabs. *Physical Review B*, **2018**, 98,	3.3	13
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53	Quantum theory of surface-enhanced resonant Raman scattering (SERRS) of molecules in strongly coupled plasmon–exciton systems. *Nanophotonics*, **2020**, 9, 295-308	6.3	11
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50	Nanocrystal molecules and chains. *Journal of Chemical Physics*, **2003**, 119, 7484-7490	3.9	10
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48	Polarization-selective enhancement of Nd3+ photoluminescence assisted by linear chains of silver nanoparticles. *Journal of Luminescence*, **2016**, 169, 569-573	3.8	9
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42	Broad band infrared modulation using spintronic-plasmonic metasurfaces. *Nanophotonics*, **2019**, 8, 1847-1854	6.3	8
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40	Electromagnetic Nanowire Resonances for Field-Enhanced Spectroscopy **2008**, 175-215		8
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34	Quantum effects in the plasmon response of bimetallic core-shell nanostructures. *Optics Express*, **2016**, 24, 23941-23956	3.3	7
33	Theoretical treatment of single-molecule scanning Raman picoscopy in strongly inhomogeneous near fields. *Journal of Raman Spectroscopy*, **2021**, 52, 296-309	2.3	7
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31	Self-assembled flat-faceted nanoparticles chains as a highly-tunable platform for plasmon-enhanced spectroscopy in the infrared. *Optics Express*, **2017**, 25, 13760-13772	3.3	5
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25	Electric Field-Induced High Order Nonlinearity in Plasmonic Nanoparticles Retrieved with Time-Dependent Density Functional Theory. *ACS Photonics*, **2017**, 4, 613-620	6.3	4
24	New materials for hot electron generation: general discussion. *Faraday Discussions*, **2019**, 214, 365-386	3.6	4
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15	Surface plasmon enhanced spectroscopies and time and space resolved methods: general discussion. *Faraday Discussions*, **2015**, 178, 253-79	3.6	2
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