Jaime Gomez-Rivas

List of Publications by Citations

162 papers	7,953 citations	48 h-index	86 g-index
187 ext. papers	9,162 ext. citations	6.8 avg, IF	6.15 L-index

#	Paper	IF	Citations
162	Design of light scattering in nanowire materials for photovoltaic applications. *Nano Letters*, **2008**, 8, 2638-42	11.5	435
161	Strong enhancement of the radiative decay rate of emitters by single plasmonic nanoantennas. *Nano Letters*, **2007**, 7, 2871-5	11.5	435
160	Plasmonics for solid-state lighting: enhanced excitation and directional emission of highly efficient light sources. *Light: Science and Applications*, **2013**, 2, e66-e66	16.7	292
159	Shaping the fluorescent emission by lattice resonances in plasmonic crystals of nanoantennas. *Physical Review Letters*, **2009**, 102, 146807	7.4	284
158	Universal scaling of the figure of merit of plasmonic sensors. *ACS Nano*, **2011**, 5, 5151-7	16.7	243
157	Broad-band and Omnidirectional Antireflection Coatings Based on Semiconductor Nanorods. *Advanced Materials*, **2009**, 21, 973-978	24	225
156	The rich photonic world of plasmonic nanoparticle arrays. *Materials Today*, **2018**, 21, 303-314	21.8	212
155	Surface modes in plasmonic crystals induced by diffractive coupling of nanoantennas. *Physical Review B*, **2009**, 80,	3.3	185
154	Enhanced transmission of THz radiation through subwavelength holes. *Physical Review B*, **2003**, 68,	3.3	180
153	Coherent and broadband enhanced optical absorption in graphene. *ACS Nano*, **2013**, 7, 4810-7	16.7	163
152	Plasmon-exciton-polariton lasing. *Optica*, **2017**, 4, 31	8.6	154
151	Lighting up multipolar surface plasmon polaritons by collective resonances in arrays of nanoantennas. *Physical Review Letters*, **2010**, 105, 266801	7.4	153
150	Strong geometrical dependence of the absorption of light in arrays of semiconductor nanowires. *ACS Nano*, **2011**, 5, 2316-23	16.7	147
149	Transmission of THz radiation through InSb gratings of subwavelength apertures. *Optics Express*, **2005**, 13, 847-59	3.3	141
148	Measurement of the dielectric constant and loss tangent of high dielectric-constant materials at terahertz frequencies. *IEEE Transactions on Microwave Theory and Techniques*, **2003**, 51, 1062-1066	4.1	133
147	Optical scattering resonances of single and coupled dimer plasmonic nanoantennas. *Optics Express*, **2007**, 15, 17736-46	3.3	126
146	Large photonic strength of highly tunable resonant nanowire materials. *Nano Letters*, **2009**, 9, 930-4	11.5	125

145	Metallic nanostructures for efficient LED lighting. *Light: Science and Applications*, **2016**, 5, e16080	16.7	123
144	High-Efficiency Nanowire Solar Cells with Omnidirectionally Enhanced Absorption Due to Self-Aligned Indium-Tin-Oxide Mie Scatterers. *ACS Nano*, **2016**, 10, 11414-11419	16.7	120
143	Time-domain measurements of surface plasmon polaritons in the terahertz frequency range. *Physical Review B*, **2004**, 69,	3.3	119
142	Nanowire antenna emission. *Nano Letters*, **2012**, 12, 5481-6	11.5	110
141	Propagation of surface plasmon polaritons on semiconductor gratings. *Physical Review Letters*, **2004**, 93, 256804	7.4	110
140	Nanoscale free-carrier profiling of individual semiconductor nanowires by infrared near-field nanoscopy. *Nano Letters*, **2010**, 10, 1387-92	11.5	108
139	Optical control over surface-plasmon-polariton-assisted THz transmission through a slit aperture. *Physical Review Letters*, **2008**, 100, 123901	7.4	105
138	Scattering efficiency and near field enhancement of active semiconductor plasmonic antennas at terahertz frequencies. *Optics Express*, **2010**, 18, 2797-807	3.3	94
137	Low-frequency active surface plasmon optics on semiconductors. *Applied Physics Letters*, **2006**, 88, 082106	3.4	90
136	Thermalization and cooling of plasmon-exciton polaritons: towards quantum condensation. *Physical Review Letters*, **2013**, 111, 166802	7.4	86
135	Coupling Bright and Dark Plasmonic Lattice Resonances. *Physical Review X*, **2011**, 1,	9.1	85
134	Collective resonances in plasmonic crystals: Size matters. *Physica B: Condensed Matter*, **2012**, 407, 4081-4085	2.8	79
133	Hybrid plasmonic-photonic modes in diffractive arrays of nanoparticles coupled to light-emitting optical waveguides. *Optics Express*, **2013**, 21, 4250-62	3.3	75
132	All-optical switching of the transmission of electromagnetic radiation through subwavelength apertures. *Optics Letters*, **2005**, 30, 2357-9	3	72
131	Surface lattice resonances strongly coupled to Rhodamine 6G excitons: tuning the plasmon-exciton-polariton mass and composition. *Optics Express*, **2013**, 21, 27411-21	3.3	70
130	Quantum rod emission coupled to plasmonic lattice resonances: A collective directional source of polarized light. *Applied Physics Letters*, **2012**, 100, 111103	3.4	70
129	Ultrafast optical switching of the THz transmission through metallic subwavelength hole arrays. *Physical Review B*, **2007**, 75,	3.3	69
128	Spectral and temporal evidence of robust photonic bound states in the continuum on terahertz metasurfaces. *Optica*, **2019**, 6, 996	8.6	68

127	Time-resolved pulse propagation in a strongly scattering material. *Physical Review E*, **2003**, 68, 016604	2.4	66
126	Tailor-made directional emission in nanoimprinted plasmonic-based light-emitting devices. *Nanoscale*, **2014**, 6, 9223-9	7.7	64
125	Active control of the strong coupling regime between porphyrin excitons and surface plasmon polaritons. *ACS Nano*, **2011**, 5, 6226-32	16.7	64
124	Broadband and omnidirectional anti-reflection layer for III/V multi-junction solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 101, 308-314	6.4	63
123	Light-emitting waveguide-plasmon polaritons. *Physical Review Letters*, **2012**, 109, 166803	7.4	63
122	Enhanced and directional emission of semiconductor nanowires tailored through leaky/guided modes. *Nanoscale*, **2013**, 5, 10582-90	7.7	62
121	Ultrafast active control of localized surface plasmon resonances in silicon bowtie antennas. *Optics Express*, **2010**, 18, 23226-35	3.3	62
120	Giant optical birefringence in ensembles of semiconductor nanowires. *Applied Physics Letters*, **2006**, 89, 233117	3.4	60
119	Directional and Polarized Emission from Nanowire Arrays. *Nano Letters*, **2015**, 15, 4557-63	11.5	56
118	Thermal switching of the scattering coefficients of terahertz surface plasmon polaritons impinging on a finite array of subwavelength grooves on semiconductor surfaces. *Physical Review B*, **2006**, 73,	3.3	54
117	Epitaxial Growth of Aligned Semiconductor Nanowire Metamaterials for Photonic Applications. *Advanced Functional Materials*, **2008**, 18, 1039-1046	15.6	52
116	Anisotropic diffusion of light in a strongly scattering material. *Physical Review Letters*, **2002**, 89, 243901	7.4	52
115	Surface plasmon mediated transmission of subwavelength slits at THz frequencies. *Physical Review B*, **2008**, 77,	3.3	50
114	Temperature dependence of the permittivity and loss tangent of high-permittivity materials at terahertz frequencies. *IEEE Transactions on Microwave Theory and Techniques*, **2005**, 53, 1266-1271	4.1	47
113	Localization or classical diffusion of light?. *Nature*, **1999**, 398, 207-207	50.4	45
112	Porous GaP Multilayers Formed by Electrochemical Etching. *Electrochemical and Solid-State Letters*, **2002**, 5, G32		44
111	Optical transmission through strong scattering and highly polydisperse media. *Europhysics Letters*, **1999**, 48, 22-28	1.6	44
110	Coherent Control of the Optical Absorption in a Plasmonic Lattice Coupled to a Luminescent Layer. *Physical Review Letters*, **2016**, 116, 103002	7.4	43

109	Modified emission of extended light emitting layers by selective coupling to collective lattice resonances. *Physical Review B*, **2016**, 94,	3.3	43
108	Tailoring Dispersion and Eigenfield Profiles of Plasmonic Surface Lattice Resonances. *ACS Photonics* , **2014**, 1, 61-68	6.3	42
107	Thermal switching of the enhanced transmission of terahertz radiation through subwavelength apertures. *Optics Letters*, **2004**, 29, 1680-2	3	42
106	Electrodynamic calculations of spontaneous emission coupled to metal nanostructures of arbitrary shape: nanoantenna-enhanced fluorescence. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, 1569	1.7	40
105	Limits to Strong Coupling of Excitons in Multilayer WS2 with Collective Plasmonic Resonances. *ACS Photonics*, **2019**, 6, 286-293	6.3	39
104	Lattice resonances in dielectric metasurfaces. *Journal of Applied Physics*, **2019**, 125, 213105	2.5	39
103	Photo-generated THz antennas. *Scientific Reports*, **2014**, 4, 3584	4.9	39
102	Breaking the symmetry of forward-backward light emission with localized and collective magnetoelectric resonances in arrays of pyramid-shaped aluminum nanoparticles. *Physical Review Letters*, **2014**, 113, 247401	7.4	39
101	Enhanced Quality Factors of Surface Lattice Resonances in Plasmonic Arrays of Nanoparticles. *Advanced Optical Materials*, **2019**, 7, 1801451	8.1	39
100	Nanowire antenna absorption probed with time-reversed fourier microscopy. *Nano Letters*, **2014**, 14, 3227-34	11.5	37
99	Active liquid crystal tuning of metallic nanoantenna enhanced light emission from colloidal quantum dots. *Nano Letters*, **2014**, 14, 5555-60	11.5	37
98	Selective detection of bacterial layers with terahertz plasmonic antennas. *Biomedical Optics Express* , **2012**, 3, 2937-49	3.5	37
97	Surface plasmon polariton-mediated enhancement of the emission of dye molecules on metallic gratings. *New Journal of Physics*, **2008**, 10, 105007	2.9	37
96	Optically switchable mirrors for surface plasmon polaritons propagating on semiconductor surfaces. *Physical Review B*, **2006**, 74,	3.3	37
95	Detection of deep-subwavelength dielectric layers at terahertz frequencies using semiconductor plasmonic resonators. *Optics Express*, **2012**, 20, 5052-60	3.3	35
94	Optimization of enhanced terahertz transmission through arrays of subwavelength apertures. *Physical Review B*, **2004**, 69,	3.3	34
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88	Long-range surface polaritons in ultra-thin films of silicon. *Optics Express*, **2008**, 16, 19674-85	3.3	28
87	Active terahertz beam steering by photo-generated graded index gratings in thin semiconductor films. *Optics Express*, **2014**, 22, 26559-71	3.3	27
86	Diffraction Enhanced Transparency and Slow THz Light in Periodic Arrays of Detuned and Displaced Dipoles. *ACS Photonics*, **2016**, 3, 1596-1603	6.3	24
85	Enhanced Light Emission by Magnetic and Electric Resonances in Dielectric Metasurfaces. *Advanced Optical Materials*, **2020**, 8, 1902024	8.1	23
84	Interaction and Coherence of a Plasmon-Exciton Polariton Condensate. *ACS Photonics*, **2018**, 5, 3666-3673	6.3	23
83	From weak to strong coupling of localized surface plasmons to guided modes in a luminescent slab. *Physical Review B*, **2014**, 90,	3.3	23
82	Experimental determination of the effective refractive index in strongly scattering media. *Optics Communications*, **2003**, 220, 17-21	2	22
81	Nonlinear Emission of Molecular Ensembles Strongly Coupled to Plasmonic Lattices with Structural Imperfections. *Physical Review Letters*, **2018**, 121, 243904	7.4	22
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79	Super-resolution Mapping of Enhanced Emission by Collective Plasmonic Resonances. *ACS Nano*, **2019**, 13, 4514-4521	16.7	20
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77	Mapping the directional emission of quasi-two-dimensional photonic crystals of semiconductor nanowires using Fourier microscopy. *Physical Review B*, **2012**, 86,	3.3	20
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71	Full vectorial mapping of the complex electric near-fields of THz resonators. *APL Photonics*, **2016**, 1, 086103	5.2	19
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65	Luminescent Metamaterials for Solid State Lighting. *ECS Journal of Solid State Science and Technology*, **2016**, 5, R3164-R3169	2	16
64	Preserving the Emission Lifetime and Efficiency of a Monolayer Semiconductor upon Transfer. *Advanced Optical Materials*, **2019**, 7, 1900351	8.1	16
63	Enhanced terahertz extinction of single plasmonic antennas with conically tapered waveguides. *New Journal of Physics*, **2013**, 15, 015006	2.9	15
62	Enhancing the gas sensitivity of surface plasmon resonance with a nanoporous silica matrix. *Sensors and Actuators B: Chemical*, **2011**, 160, 181-188	8.5	15
61	Polarization-dependent light extinction in ensembles of polydisperse vertical semiconductor nanowires: A Mie scattering effective medium. *Physical Review B*, **2012**, 86,	3.3	15
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54	Long range surface polaritons supported by lossy thin films. *Applied Physics Letters*, **2010**, 96, 113108	3.4	10
53	Propagation of Light in Disordered Semiconductor Materials **2001**, 447-473		10
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47	Directional sideward emission from luminescent plasmonic nanostructures. *Optics Express*, **2016**, 24, A388-96	3.3	8
46	Ultrafast Dynamics of Nonequilibrium Organic Exciton-Polariton Condensates. *Nano Letters*, **2019**, 19, 8590-8596	11.5	8
45	Optical control over transmission of terahertz radiation through arrays of subwavelength holes of varying size. *Physical Review B*, **2009**, 80,	3.3	8
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43	Modified reflection in birefringent layers of core–shell semiconductor nanowires. *Semiconductor Science and Technology*, **2010**, 25, 024008	1.8	7
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40	Modification of the photoluminescence anisotropy of semiconductor nanowires by coupling to surface plasmon polaritons. *Optics Letters*, **2007**, 32, 2097-9	3	7
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37	Strong diameter-dependence of nanowire emission coupled to waveguide modes. *Applied Physics Letters*, **2016**, 108, 121109	3.4	7
36	Semiconductor plasmonic crystals: active control of THz extinction. *Semiconductor Science and Technology*, **2013**, 28, 124003	1.8	6
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28	Photoimprinted Controllable Fano Resonance in the Terahertz Regime. *ACS Photonics*, **2017**, 4, 1785-1789	6.3	4
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26	THz spectroscopy of semiconducting plasmonic resonators **2013**,		4
25	Surface wave sensors based on nanometric layers of strongly absorbing materials. *Optics Express*, **2012**, 20, 9431-41	3.3	4
24	Long-range guided THz radiation by thin layers of water. *Optics Express*, **2012**, 20, 27781-91	3.3	4
23	Unveiling the Symmetry Protection of Bound States in the Continuum with Terahertz Near-Field Imaging. *ACS Photonics*, **2021**, 8, 3010-3016	6.3	4
22	Diffraction enhanced transparency in a hybrid gold-graphene THz metasurface. *APL Photonics*, **2019**, 4, 036104	5.2	3
21	Modulated light absorption and emission of a luminescent layer by phase-controlled multiple beam illumination. *Optics Express*, **2015**, 23, 18166-80	3.3	3
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19	Strong Light-Matter Coupling: Enhanced Delayed Fluorescence in Tetracene Crystals by Strong Light-Matter Coupling (Adv. Funct. Mater. 36/2019). *Advanced Functional Materials*, **2019**, 29, 1970249	15.6	2
18	Long-range surface plasmon polaritons at THz frequencies in thin semiconductor layers (Invited Paper). *Chinese Optics Letters*, **2011**, 9, 110014-110016	2.2	2
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12	Plasmonic LED device **2014**,		1
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10	Semiconductor nanowire photoluminescence: spatial/polarization averaged coupling into leaky modes **2013**,		1
9	Mimicking moth's eyes for photovoltaic applications with tapered GaP nanorods **2010**,		1
8	Terahertz plasmonics with semiconductor surfaces and antennas **2009**,		1
7	Strong modification of the reflection from birefringent layers of semiconductor nanowires by nanoshells. *Applied Physics Letters*, **2011**, 99, 201108	3.4	1
6	Coherent control of the optical absorption in a plasmonic lattice coupled to a luminescent layer **2016**,		1
5	Broadband and Omnidirectional Anti-reflection Coating for III/V Multi-junction Solar Cells. *Springer Series in Materials Science*, **2014**, 571-595	0.9	1
4	Spatial coherence from Nd quantum emitters mediated by a plasmonic chain. *Optics Express*, **2021**, 29, 26244-26254	3.3	1
3	Electric tuning and switching of the resonant response of nanoparticle arrays with liquid crystals. *Journal of Applied Physics*, **2022**, 131, 083101	2.5	1
2	Chasing Vibro-Polariton Fingerprints in Infrared and Raman Spectra Using Surface Lattice Resonances on Extended Metasurfaces.. *Journal of Physical Chemistry C*, **2022**, 126, 7143-7151	3.8	1

1	Inside Front Cover: Epitaxial Growth of Aligned Semiconductor Nanowire Metamaterials for Photonic Applications (Adv. Funct. Mater. 7/2008). *Advanced Functional Materials*, **2008**, 18, 970-970	15.6