F Javier Garca De Abajo

List of Publications by Year in Descending Order

444 papers	37,945 citations	92 h-index	185 g-index
487 ext. papers	43,261 ext. citations	8.3 avg, IF	8 L-index

#	Paper	IF	Citations
444	Low-Loss Tunable Infrared Plasmons in the High-Mobility Perovskite (Ba,La)SnO.. *Small*, **2022**, e2106897	11	1
443	Active control of micrometer plasmon propagation in suspended graphene.. *Nature Communications*, **2022**, 13, 1465	17.4	2
442	Tunable planar focusing based on hyperbolic phonon polaritons in MoO.. *Advanced Materials*, **2022**, e2105590	24	6
441	Inelastic Mach-Zehnder Interferometry with Free Electrons.. *Physical Review Letters*, **2022**, 128, 147401	7.4	0
440	Probing Electronic States in Monolayer Semiconductors through Static and Transient Third-Harmonic Spectroscopies. *Advanced Materials*, **2021**, e2107104	24	0
439	Inelastic Scattering of Electron Beams by Nonreciprocal Nanotructures. *Physical Review Letters*, **2021**, 127, 157404	7.4	1
438	Modulation of cathodoluminescence emission by interference with external light **2021**,		2
437	Nonlinear plasmonic response in atomically thin metal films. *Nanophotonics*, **2021**,	6.3	1
436	Optical Excitations with Electron Beams: Challenges´and´Opportunities.. *ACS Photonics*, **2021**, 8, 945-974	6.3	22
435	Modulation of Cathodoluminescence Emission by Interference with External Light. *ACS Nano*, **2021**, 15, 7290-7304	16.7	10
434	Optical Modulation of Electron Beams in Free Space. *Physical Review Letters*, **2021**, 126, 123901	7.4	7
433	Can Copper Nanostructures Sustain High-Quality Plasmons?. *Nano Letters*, **2021**, 21, 2444-2452	11.5	16
432	Complete coupling of focused light to surface polaritons. *Optica*, **2021**, 8, 520	8.6	1
431	Optical coherence transfer mediated by free electrons. *Science Advances*, **2021**, 7,	14.3	16
430	Spontaneous and stimulated electron-photon interactions in nanoscale plasmonic near fields. *Light: Science and Applications*, **2021**, 10, 82	16.7	14
429	Optical response of noble metal nanostructures: quantum surface effects in crystallographic facets. *Optica*, **2021**, 8, 710	8.6	11
428	Theory of Atomic-Scale Vibrational Mapping and Isotope Identification with Electron Beams. *ACS Nano*, **2021**, 15, 9890-9899	16.7	5

427	Tailored nanoscale plasmon-enhanced vibrational electron spectroscopy. *Microscopy and Microanalysis*, **2021**, 27, 320-321	0.5	
426	Atomically-Precise Texturing of Hexagonal Boron Nitride Nanostripes. *Advanced Science*, **2021**, 8, e2101455	15.6	1
425	Exploring electronic coupling of optical and phonon excitations at the nanoscale. *Microscopy and Microanalysis*, **2021**, 27, 1202-1203	0.5	0
424	2-Grating Inelastic Free Electron Interferometry. *Microscopy and Microanalysis*, **2021**, 27, 1474-1477	0.5	0
423	Giant enhancement of third-harmonic generation in graphene-metal heterostructures. *Nature Nanotechnology*, **2021**, 16, 318-324	28.7	9
422	Direct observation of highly confined phonon polaritons in suspended monolayer hexagonal boron nitride. *Nature Materials*, **2021**, 20, 43-48	27	34
421	Chiral Light Emission from a Sphere Revealed by Nanoscale Relative-Phase Mapping. *ACS Nano*, **2021**, 15, 2219-2228	16.7	10
420	Rotational Doppler cooling and heating. *Science Advances*, **2021**, 7,	14.3	3
419	Ultrafast Momentum-Resolved Free-Electron Probing of Optically Pumped Plasmon Thermal Dynamics. *ACS Photonics*, **2021**, 8, 614-624	6.3	1
418	Anisotropic second-harmonic generation from monocrystalline gold flakes. *Optics Letters*, **2021**, 46, 833-836	3	2
417	Generation, characterization, and manipulation of quantum correlations in electron beams. *Npj Quantum Information*, **2021**, 7,	8.6	1
416	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. *ACS Photonics*, **2021**, 8, 2320-2328	6.3	3
415	Revealing Nanoscale Confinement Effects on Hyperbolic Phonon Polaritons with an Electron Beam. *Small*, **2021**, 17, e2103404	11	6
414	Comment on "Free-Electron-Bound-Electron Resonant Interaction". *Physical Review Letters*, **2021**, 126, 019501	7.4	2
413	Unveiling the Coupling of Single Metallic Nanoparticles to Whispering-Gallery Microcavities.. *Nano Letters*, **2021**,	11.5	4
412	Electron Beam Aberration Correction Using Optical Fields. *Microscopy and Microanalysis*, **2020**, 26, 2974-2974	2.5	
411	Thermal manipulation of plasmons in atomically thin films. *Light: Science and Applications*, **2020**, 9, 87	16.7	14
410	Probing Chirality with Inelastic Electron-Light Scattering. *Nano Letters*, **2020**, 20, 4377-4383	11.5	5

409	Nonlinear Interactions between Free Electrons and Nanographenes. *Nano Letters*, **2020**, 20, 4792-4800	11.5	4
408	Back to Normal: An Old Physics Route to Reduce SARS-CoV-2 Transmission in Indoor Spaces. *ACS Nano*, **2020**, 14, 7704-7713	16.7	43
407	Room Temperature Graphene Mid-Infrared Bolometer with a Broad Operational Wavelength Range. *ACS Photonics*, **2020**, 7, 1206-1215	6.3	19
406	Semimetals for high-performance photodetection. *Nature Materials*, **2020**, 19, 830-837	27	70
405	Tailored Nanoscale Plasmon-Enhanced Vibrational Electron Spectroscopy. *Nano Letters*, **2020**, 20, 2973-2979	11.5	19
404	Strong-field-driven dynamics and high-harmonic generation in interacting one dimensional systems. *Physical Review Research*, **2020**, 2,	3.9	7
403	Theory of electron energy-loss spectroscopy in atomically thin metallic films. *Physical Review Research*, **2020**, 2,	3.9	4
402	Efficient generation of extreme terahertz harmonics in three-dimensional Dirac semimetals. *Physical Review Research*, **2020**, 2,	3.9	13
401	Free-electron shaping using quantum light. *Optica*, **2020**, 7, 1820	8.6	13
400	Electron diffraction by vacuum fluctuations. *New Journal of Physics*, **2020**, 22, 103057	2.9	5
399	Cathodoluminescence Phase Extraction of the Coupling between Nanoparticles and Surface Plasmon Polaritons. *Nano Letters*, **2020**, 20, 592-598	11.5	13
398	Anomalous Thermodiffusion of Electrons in Graphene. *Physical Review Letters*, **2020**, 125, 176802	7.4	0
397	Chemical identification through two-dimensional electron energy-loss spectroscopy. *Science Advances*, **2020**, 6, eabb4713	14.3	1
396	Electron Beam Aberration Correction Using Optical Near Fields. *Physical Review Letters*, **2020**, 125, 030801	7.4	12
395	Ultrafast Topological Engineering in Metamaterials. *Physical Review Letters*, **2020**, 125, 037403	7.4	8
394	Plasmon-Enhanced Optical Chirality through Hotspot Formation in Surfactant-Directed Self-Assembly of Gold Nanorods. *ACS Nano*, **2020**,	16.7	19
393	Quantum Aspects of Electron-Light-Plasmon Interactions at the Atomic Scale. *Microscopy and Microanalysis*, **2020**, 26, 3026-3026	0.5	
392	Tunable free-electron X-ray radiation from van der Waals materials. *Nature Photonics*, **2020**, 14, 686-692	33.9	13

391	Electrically driven photon emission from individual atomic defects in monolayer WS. *Science Advances*, **2020**, 6,	14.3	21
390	Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117	16.7	1000
389	Nanoscale Nonlinear Spectroscopy with Electron Beams. *ACS Photonics*, **2020**, 7, 1290-1296	6.3	8
388	Nonlinear Graphene Nanoplasmonics. *Accounts of Chemical Research*, **2019**, 52, 2536-2547	24.3	26
387	Single-Plasmon Thermo-Optical Switching in Graphene. *Nano Letters*, **2019**, 19, 3743-3750	11.5	15
386	Plasmonics in Atomically Thin Crystalline Silver Films. *ACS Nano*, **2019**, 13, 7771-7779	16.7	50
385	Holographic imaging of electromagnetic fields via electron-light quantum interference. *Science Advances*, **2019**, 5, eaav8358	14.3	30
384	Tracking ultrafast hot-electron diffusion in space and time by ultrafast thermomodulation microscopy. *Science Advances*, **2019**, 5, eaav8965	14.3	67
383	Quantum computing with graphene plasmons. *Npj Quantum Information*, **2019**, 5,	8.6	29
382	Ultrafast generation and control of an electron vortex beam via chiral plasmonic near fields. *Nature Materials*, **2019**, 18, 573-579	27	65
381	Tunable plasmons in ultrathin metal films. *Nature Photonics*, **2019**, 13, 328-333	33.9	103
380	Fundamental Limits to the Coupling between Light and 2D Polaritons by Small Scatterers. *ACS Nano*, **2019**, 13, 5184-5197	16.7	16
379	Plasmon generation through electron tunneling in twisted double-layer graphene and metal-insulator-graphene systems. *Physical Review B*, **2019**, 99,	3.3	3
378	Gas identification with graphene plasmons. *Nature Communications*, **2019**, 10, 1131	17.4	91
377	Gain-Assisted Plasmon Resonance Narrowing and Its Application in Sensing. *Physical Review Applied* , **2019**, 11,	4.3	16
376	Graphene: Free electron scattering within an inverted honeycomb lattice. *Physical Review B*, **2019**, 99,	3.3	5
375	Imaging the Renner-Teller effect using laser-induced electron diffraction. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8173-8177	11.5	21
374	Magnetically activated rotational vacuum friction. *Physical Review A*, **2019**, 99,	2.6	4

373	Circular Dichroism in Rotating Particles. *Physical Review Letters*, **2019**, 123, 066803	7.4	3
372	Electron-beam spectroscopy for nanophotonics. *Nature Materials*, **2019**, 18, 1158-1171	27	96
371	Quantum effects in the acoustic plasmons of atomically thin heterostructures. *Optica*, **2019**, 6, 630	8.6	23
370	Quantum effects in the acoustic plasmons of atomically thin heterostructures: publisher note. *Optica*, **2019**, 6, 798	8.6	3
369	Probing quantum optical excitations with fast electrons. *Optica*, **2019**, 6, 1524	8.6	43
368	Visible Optical Resonances in Electrically Doped DNA. *ACS Photonics*, **2019**, 6, 932-938	6.3	1
367	Stimulated electron energy loss and gain in an electron microscope without a pulsed electron gun. *Ultramicroscopy*, **2019**, 203, 44-51	3.1	22
366	Manipulating chemistry through nanoparticle morphology. *Nanoscale Horizons*, **2019**, 5, 102-108	10.8	18
365	Nanomaterial-Based Plasmon-Enhanced Infrared Spectroscopy. *Advanced Materials*, **2018**, 30, e1704896	24	88
364	Enhanced graphene nonlinear response through geometrical plasmon focusing. *Applied Physics Letters*, **2018**, 112, 061107	3.4	2
363	Enhancement of Nonlinear Optical Phenomena by Localized Resonances. *ACS Photonics*, **2018**, 5, 1521-1527	6.3	5
362	meV Resolution in Laser-Assisted Energy-Filtered Transmission Electron Microscopy. *ACS Photonics*, **2018**, 5, 759-764	6.3	51
361	Continuous-wave multiphoton photoemission from plasmonic nanostars. *Communications Physics*, **2018**, 1,	5.4	26
360	Ultrafast nonlinear optical response of Dirac fermions in graphene. *Nature Communications*, **2018**, 9, 1018	17.4	81
359	Transient nonlinear plasmonics in nanostructured graphene. *Optica*, **2018**, 5, 429	8.6	11
358	Unveiling and Imaging Degenerate States in Plasmonic Nanoparticles with Nanometer Resolution. *ACS Nano*, **2018**, 12, 8436-8446	16.7	14
357	Photothermal Engineering of Graphene Plasmons. *Physical Review Letters*, **2018**, 121, 057404	7.4	15
356	Efficient orbital angular momentum transfer between plasmons and free electrons. *Physical Review B*, **2018**, 98,	3.3	25

355	Ultrafast electron energy-loss spectroscopy in transmission electron microscopy. *MRS Bulletin*, **2018**, 43, 497-503	3.2	14
354	Attosecond coherent control of free-electron wave functions using semi-infinite light fields. *Nature Communications*, **2018**, 9, 2694	17.4	76
353	Efficient electrical detection of mid-infrared graphene plasmons at room temperature. *Nature Materials*, **2018**, 17, 986-992	27	84
352	Nonlinear Atom-Plasmon Interactions Enabled by Nanostructured Graphene. *Physical Review Letters*, **2018**, 121, 257403	7.4	16
351	Lasing and Amplification from Two-Dimensional Atom Arrays. *Physical Review Letters*, **2018**, 121, 163602	7.4	13
350	Optical harmonic generation in monolayer group-VI transition metal dichalcogenides. *Physical Review B*, **2018**, 98,	3.3	53
349	Plasmon-assisted high-harmonic generation in graphene. *Nature Communications*, **2017**, 8, 14380	17.4	95
348	Hybrid plasmonic nanoresonators as efficient solar heat shields. *Nano Energy*, **2017**, 37, 118-125	17.1	18
347	Double-layer graphene for enhanced tunable infrared plasmonics. *Light: Science and Applications*, **2017**, 6, e16277	16.7	103
346	Lateral Casimir Force on a Rotating Particle near a Planar Surface. *Physical Review Letters*, **2017**, 118, 133605	7.4	44
345	Ultrafast radiative heat transfer. *Nature Communications*, **2017**, 8, 2	17.4	80
344	Optimization of Nanoparticle-Based SERS Substrates through Large-Scale Realistic Simulations. *ACS Photonics*, **2017**, 4, 329-337	6.3	92
343	Strong Plasmon-Phonon Splitting and Hybridization in 2D Materials Revealed through a Self-Energy Approach. *ACS Photonics*, **2017**, 4, 2908-2915	6.3	9
342	Universal analytical modeling of plasmonic nanoparticles. *Chemical Society Reviews*, **2017**, 46, 6710-6724	58.5	89
341	Plasmonics simulations including nonlocal effects using a boundary element method approach. *International Journal of Modern Physics B*, **2017**, 31, 1740007	1.1	9
340	Plasmonic Nano-Oven by Concatenation of Multishell Photothermal Enhancement. *ACS Nano*, **2017**, 11, 7915-7924	16.7	27
339	Analytical Modeling of Graphene Plasmons. *ACS Photonics*, **2017**, 4, 3106-3114	6.3	40
338	Analytical description of the nonlinear plasmonic response in nanographene. *Physical Review B*, **2017**, 96,	3.3	17

337	Intrinsic Plasmon-Phonon Interactions in Highly Doped Graphene: A´Near-Field Imaging Study. *Nano Letters*, **2017**, 17, 5908-5913	11.5	30
336	Plasmon Generation through Electron Tunneling in Graphene. *ACS Photonics*, **2017**, 4, 2367-2375	6.3	34
335	Nonlocal plasmonic response of doped and optically pumped graphene, MoS2, and black phosphorus. *Physical Review B*, **2017**, 96,	3.3	7
334	Topologically protected Dirac plasmons in a graphene superlattice. *Nature Communications*, **2017**, 8, 1243	17.4	43
333	How To Identify Plasmons from the Optical Response of Nanostructures. *ACS Nano*, **2017**, 11, 7321-7335	16.7	54
332	Theory of graphene saturable absorption. *Physical Review B*, **2017**, 95,	3.3	89
331	Nonperturbative theory of graphene saturable absorption **2017**,		2
330	Electron refraction at lateral atomic interfaces. *Journal of Applied Physics*, **2017**, 122, 195306	2.5	2
329	Electrical Detection of Single Graphene Plasmons. *ACS Nano*, **2016**, 10, 8045-53	16.7	13
328	Plasmons in doped finite carbon nanotubes and their interactions with fast electrons and quantum emitters. *Physical Review B*, **2016**, 94,	3.3	8
327	Nonlinear Plasmonic Sensing with Nanographene. *Physical Review Letters*, **2016**, 117, 123904	7.4	42
326	Smith-Purcell radiation emission in aperiodic arrays. *Physical Review B*, **2016**, 94,	3.3	15
325	Electron diffraction by plasmon waves. *Physical Review B*, **2016**, 94,	3.3	32
324	Graphene-Based Active Random Metamaterials for Cavity-Free Lasing. *Physical Review Letters*, **2016** , 116, 217401	7.4	30
323	Polaritons in van der Waals materials. *Science*, **2016**, 354,	33.3	514
322	Femtosecond plasmon and photon wave packets excited by a high-energy electron on a metal or dielectric surface. *Physical Review B*, **2016**, 94,	3.3	12
321	Imaging and controlling plasmonic interference fields at buried interfaces. *Nature Communications*, **2016**, 7, 13156	17.4	36
320	Active modulation of visible light with graphene-loaded ultrathin metal plasmonic antennas. *Scientific Reports*, **2016**, 6, 32144	4.9	33

319	Quantum Effects in the Nonlinear Response of Graphene Plasmons. *ACS Nano*, **2016**, 10, 1995-2003	16.7	65
318	Hot-Electron Dynamics and Thermalization in Small Metallic Nanoparticles. *ACS Photonics*, **2016**, 3, 1637-1646	6.3	98
317	Ultrafast and Broadband Tuning of Resonant Optical Nanostructures Using Phase-Change Materials. *Advanced Optical Materials*, **2016**, 4, 1060-1066	8.1	53
316	Ultrasensitive multiplex optical quantification of bacteria in large samples of biofluids. *Scientific Reports*, **2016**, 6, 29014	4.9	45
315	Self-organization of frozen light in near-zero-index media with cubic nonlinearity. *Scientific Reports*, **2016**, 6, 20088	4.9	18
314	Structural Coloring of Glass Using Dewetted Nanoparticles and Ultrathin Films of Metals. *ACS Photonics*, **2016**, 3, 1194-1201	6.3	54
313	Molecular Plasmon-Phonon Coupling. *Nano Letters*, **2016**, 16, 6390-6395	11.5	12
312	Electrical control of optical emitter relaxation pathways enabled by graphene. *Nature Physics*, **2015**, 11, 281-287	16.2	85
311	Molecular Sensing with Tunable Graphene Plasmons. *ACS Photonics*, **2015**, 2, 876-882	6.3	84
310	Molecular Plasmonics. *Nano Letters*, **2015**, 15, 6208-14	11.5	66
309	APPLIED PHYSICS. Mid-infrared plasmonic biosensing with graphene. *Science*, **2015**, 349, 165-8	33.3	887
308	Controlled Living Nanowire Growth: Precise Control over the Morphology and Optical Properties of AgAuAg Bimetallic Nanowires. *Nano Letters*, **2015**, 15, 5427-37	11.5	105
307	Quantum nonlocal effects in individual and interacting graphene nanoribbons. *Light: Science and Applications*, **2015**, 4, e241-e241	16.7	41
306	Plasmonics in atomically thin materials. *Faraday Discussions*, **2015**, 178, 87-107	3.6	31
305	Resonant Visible Light Modulation with Graphene. *ACS Photonics*, **2015**, 2, 550-558	6.3	61
304	Plasmon wave function of graphene nanoribbons. *New Journal of Physics*, **2015**, 17, 083013	2.9	17
303	Ultimate Limit of Light Extinction by Nanophotonic Structures. *Nano Letters*, **2015**, 15, 7633-8	11.5	19
302	Amplification of the Evanescent Field of Free Electrons. *ACS Photonics*, **2015**, 2, 1236-1240	6.3	19

301	Second-order quantum nonlinear optical processes in single graphene nanostructures and arrays. *New Journal of Physics*, **2015**, 17, 083031	2.9	36
300	Pronounced Linewidth Narrowing of an Aluminum Nanoparticle Plasmon Resonance by Interaction with an Aluminum Metallic Film. *Nano Letters*, **2015**, 15, 6946-51	11.5	125
299	Phonon excitation by electron beams in nanographenes. *Physical Review B*, **2015**, 92,	3.3	9
298	Ultraefficient Coupling of a Quantum Emitter to the Tunable Guided Plasmons of a Carbon Nanotube. *Physical Review Letters*, **2015**, 115, 173601	7.4	39
297	Interference of surface plasmons and Smith-Purcell emission probed by angle-resolved cathodoluminescence spectroscopy. *Physical Review B*, **2015**, 91,	3.3	25
296	Plasmon?Phonon Interactions in Topological Insulator Microrings. *Advanced Optical Materials*, **2015**, 3, 1257-1263	8.1	55
295	Propagation and localization of quantum dot emission along a gap-plasmonic transmission line. *Optics Express*, **2015**, 23, 29296-320	3.3	4
294	Plasmon-Enhanced Nonlinear Wave Mixing in Nanostructured Graphene. *ACS Photonics*, **2015**, 2, 306-312	6.3	54
293	Unveiling nanometer scale extinction and scattering phenomena through combined electron energy loss spectroscopy and cathodoluminescence measurements. *Nano Letters*, **2015**, 15, 1229-37	11.5	113
292	Extraordinary absorption of sound in porous lamella-crystals. *Scientific Reports*, **2014**, 4, 4674	4.9	40
291	3D plasmonic chiral colloids. *Nanoscale*, **2014**, 6, 2077-81	7.7	89
290	Graphene Plasmonics: Challenges and Opportunities. *ACS Photonics*, **2014**, 1, 135-152	6.3	817
289	Tunable plasmons in atomically thin gold nanodisks. *Nature Communications*, **2014**, 5, 3548	17.4	106
288	Active tunable absorption enhancement with graphene nanodisk arrays. *Nano Letters*, **2014**, 14, 299-304	11.5	477
287	Phonon-mediated mid-infrared photoresponse of graphene. *Nano Letters*, **2014**, 14, 6374-81	11.5	49
286	Chemical speciation of heavy metals by surface-enhanced Raman scattering spectroscopy: identification and quantification of inorganic- and methyl-mercury in water. *Nanoscale*, **2014**, 6, 8368-75	7.7	71
285	Dichroism in the interaction between vortex electron beams, plasmons, and molecules. *Physical Review Letters*, **2014**, 113, 066102	7.4	58
284	Extraordinary absorption of decorated undoped graphene. *Physical Review Letters*, **2014**, 112, 077401	7.4	47

283	Plasmons in inhomogeneously doped neutral and charged graphene nanodisks. *Applied Physics Letters*, **2014**, 104, 131103	3.4	16
282	Surface plasmon dependence on the electron density profile at metal surfaces. *ACS Nano*, **2014**, 8, 9558-66	12.7	69
281	Toward ultimate nanoplasmonics modeling. *ACS Nano*, **2014**, 8, 7559-70	16.7	104
280	Deterministic optical-near-field-assisted positioning of nitrogen-vacancy centers. *Nano Letters*, **2014**, 14, 1520-5	11.5	39
279	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. *Particle and Particle Systems Characterization*, **2014**, 31, 1134-1140	3.1	17
278	An optical fiber network oracle for NP-complete problems. *Light: Science and Applications*, **2014**, 3, e147-e147	16.7	33
277	Near-field nanoimprinting using colloidal monolayers. *Optics Express*, **2014**, 22, 8226-33	3.3	12
276	Electrically tunable nonlinear plasmonics in graphene nanoislands. *Nature Communications*, **2014**, 5, 5725	17.4	117
275	Graphene optical-to-thermal converter. *Applied Physics Letters*, **2014**, 105, 211102	3.4	13
274	The magnetic response of graphene split-ring metamaterials. *Light: Science and Applications*, **2013**, 2, e78-e78	16.7	107
273	Fast optical modulation of the fluorescence from a single nitrogen□vacancy centre. *Nature Physics*, **2013**, 9, 785-789	16.2	24
272	Single-photon nonlinear optics with graphene plasmons. *Physical Review Letters*, **2013**, 111, 247401	7.4	140
271	Strong plasmon reflection at nanometer-size gaps in monolayer graphene on SiC. *Nano Letters*, **2013**, 13, 6210-5	11.5	85
270	Theory of random nanoparticle layers in photovoltaic devices applied to self-aggregated metal samples. *Solar Energy Materials and Solar Cells*, **2013**, 109, 294-299	6.4	14
269	The planar parabolic optical antenna. *Nano Letters*, **2013**, 13, 188-93	11.5	30
268	Three-dimensional optical manipulation of a single electron spin. *Nature Nanotechnology*, **2013**, 8, 175-9	28.7	105
267	Plasmons driven by single electrons in graphene nanoislands. *Nanophotonics*, **2013**, 2, 139-151	6.3	38
266	Efficient modal-expansion discrete-dipole approximation: Application to the simulation of optical extinction and electron energy-loss spectroscopies. *Physical Review B*, **2013**, 88,	3.3	8

265	Gated tunability and hybridization of localized plasmons in nanostructured graphene. *ACS Nano*, **2013**, 7, 2388-95	16.7	534
264	Applied physics. Graphene nanophotonics. *Science*, **2013**, 339, 917-8	33.3	104
263	Evolution of light-induced vapor generation at a liquid-immersed metallic nanoparticle. *Nano Letters*, **2013**, 13, 1736-42	11.5	346
262	Universal distance-scaling of nonradiative energy transfer to graphene. *Nano Letters*, **2013**, 13, 2030-5	11.5	172
261	Alternating Plasmonic Nanoparticle Heterochains Made by Polymerase Chain Reaction and Their Optical Properties. *Journal of Physical Chemistry Letters*, **2013**, 4, 641-7	6.4	69
260	Optical field enhancement by strong plasmon interaction in graphene nanostructures. *Physical Review Letters*, **2013**, 110, 187401	7.4	75
259	Ultrasound Transmission Through Periodically Perforated Plates. *Springer Series in Materials Science* , **2013**, 83-113	0.9	
258	Three-dimensional plasmonic chiral tetramers assembled by DNA origami. *Nano Letters*, **2013**, 13, 2128-33	11.5	228
257	Effect of Ag nanoparticles integrated within antireflection coatings for solar cells. *Journal of Renewable and Sustainable Energy*, **2013**, 5, 033116	2.5	18
256	Quantum junction plasmons in graphene dimers. *Laser and Photonics Reviews*, **2013**, 7, 297-302	8.3	14
255	Plasmonic energy transfer in periodically doped graphene. *New Journal of Physics*, **2013**, 15, 033042	2.9	22
254	Tunable molecular plasmons in polycyclic aromatic hydrocarbons. *ACS Nano*, **2013**, 7, 3635-43	16.7	89
253	Multiple excitation of confined graphene plasmons by single free electrons. *ACS Nano*, **2013**, 7, 11409-19	16.7	67
252	Controlled interaction of surface quantum-well electronic states. *Nano Letters*, **2013**, 13, 6130-5	11.5	36
251	Magnetic and electric response of single subwavelength holes. *Physical Review B*, **2013**, 88,	3.3	30
250	Excitation of confined modes on particle arrays. *Optics Express*, **2013**, 21, 5636-42	3.3	11
249	Plasmon electron energy-gain spectroscopy. *New Journal of Physics*, **2013**, 15, 103021	2.9	33
248	Optical generation of intense ultrashort magnetic pulses at the nanoscale. *New Journal of Physics*, **2013**, 15, 113035	2.9	13

247	Femtosecond-resolved ablation dynamics of Si in the near field of a small dielectric particle. *Beilstein Journal of Nanotechnology*, **2013**, 4, 501-9	3	13
246	Quantum finite-size effects in graphene plasmons. *ACS Nano*, **2012**, 6, 1766-75	16.7	246
245	Negative refraction and backward waves in layered acoustic metamaterials. *Physical Review B*, **2012** , 86,	3.3	16
244	Organized plasmonic clusters with high coordination number and extraordinary enhancement in surface-enhanced Raman scattering (SERS). *Angewandte Chemie - International Edition*, **2012**, 51, 12688-93	16.4	137
243	Plasmon spectroscopy and imaging of individual gold nanodecahedra: a combined optical microscopy, cathodoluminescence, and electron energy-loss spectroscopy study. *Nano Letters*, **2012**, 12, 4172-80	11.5	120
242	Rotational quantum friction. *Physical Review Letters*, **2012**, 109, 123604	7.4	80
241	Graphene plasmon waveguiding and hybridization in individual and paired nanoribbons. *ACS Nano*, **2012**, 6, 431-40	16.7	564
240	Low-loss terahertz superconducting plasmonics. *New Journal of Physics*, **2012**, 14, 115006	2.9	26
239	Plasmon blockade in nanostructured graphene. *ACS Nano*, **2012**, 6, 1724-31	16.7	56
238	Anisotropic metamaterials for full control of acoustic waves. *Physical Review Letters*, **2012**, 108, 124301	7.4	192
237	Plasmon scattering from single subwavelength holes. *Physical Review Letters*, **2012**, 108, 127402	7.4	61
236	Plasmons in electrostatically doped graphene. *Applied Physics Letters*, **2012**, 100, 201105	3.4	62
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2	Overview of core and valence photoemission50-115		4
1	Simple Mathematics on Covid-19 Expansion		2