

Naomi J Halas

List of Publications by Citations

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

382
papers

80,926
citations

143
h-index

282
g-index

418
ext. papers

88,807
ext. citations

11
avg, IF

8.2
L-index

#	Paper	IF	Citations
382	Nanoshell-mediated near-infrared thermal therapy of tumors under magnetic resonance guidance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 13549-54	11.5	3196
381	A hybridization model for the plasmon response of complex nanostructures. <i>Science</i> , 2003 , 302, 419-22	33.3	3073
380	The Fano resonance in plasmonic nanostructures and metamaterials. <i>Nature Materials</i> , 2010 , 9, 707-15	27	2834
379	Plasmons in strongly coupled metallic nanostructures. <i>Chemical Reviews</i> , 2011 , 111, 3913-61	68.1	2348
378	Plasmon-induced hot carrier science and technology. <i>Nature Nanotechnology</i> , 2015 , 10, 25-34	28.7	1903
377	Nanoengineering of optical resonances. <i>Chemical Physics Letters</i> , 1998 , 288, 243-247	2.5	1867
376	Nano-optics from sensing to waveguiding. <i>Nature Photonics</i> , 2007 , 1, 641-648	33.9	1716
375	Immunotargeted nanoshells for integrated cancer imaging and therapy. <i>Nano Letters</i> , 2005 , 5, 709-11	11.5	1549
374	Photo-thermal tumor ablation in mice using near infrared-absorbing nanoparticles. <i>Cancer Letters</i> , 2004 , 209, 171-6	9.9	1502
373	Photodetection with active optical antennas. <i>Science</i> , 2011 , 332, 702-4	33.3	1465
372	Nanoshell-enabled photothermal cancer therapy: impending clinical impact. <i>Accounts of Chemical Research</i> , 2008 , 41, 1842-51	24.3	1302
371	Self-assembled plasmonic nanoparticle clusters. <i>Science</i> , 2010 , 328, 1135-8	33.3	1223
370	Near-infrared resonant nanoshells for combined optical imaging and photothermal cancer therapy. <i>Nano Letters</i> , 2007 , 7, 1929-34	11.5	1123
369	Hot electrons do the impossible: plasmon-induced dissociation of H ₂ on Au. <i>Nano Letters</i> , 2013 , 13, 240-7	11.5	1091
368	Surface-enhanced Raman scattering from individual au nanoparticles and nanoparticle dimer substrates. <i>Nano Letters</i> , 2005 , 5, 1569-74	11.5	978
367	Nanoshell-enabled photonics-based imaging and therapy of cancer. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 33-40	2.7	883
366	Solar vapor generation enabled by nanoparticles. <i>ACS Nano</i> , 2013 , 7, 42-9	16.7	882

365	Symmetry breaking in plasmonic nanocavities: subradiant LSPR sensing and a tunable Fano resonance. <i>Nano Letters</i> , 2008 , 8, 3983-8	11.5	847
364	Aluminum for plasmonics. <i>ACS Nano</i> , 2014 , 8, 834-40	16.7	827
363	Plasmonic enhancement of molecular fluorescence. <i>Nano Letters</i> , 2007 , 7, 496-501	11.5	800
362	Theranostic nanoshells: from probe design to imaging and treatment of cancer. <i>Accounts of Chemical Research</i> , 2011 , 44, 936-46	24.3	751
361	Shape-Controlled Synthesis and Surface Plasmonic Properties of Metallic Nanostructures. <i>MRS Bulletin</i> , 2005 , 30, 338-348	3.2	743
360	Engineered nanomaterials for biophotonics applications: improving sensing, imaging, and therapeutics. <i>Annual Review of Biomedical Engineering</i> , 2003 , 5, 285-92	12	729
359	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
358	Metallic nanoparticle arrays: a common substrate for both surface-enhanced Raman scattering and surface-enhanced infrared absorption. <i>ACS Nano</i> , 2008 , 2, 707-18	16.7	665
357	Nanorice: a hybrid plasmonic nanostructure. <i>Nano Letters</i> , 2006 , 6, 827-32	11.5	661
356	Temperature-sensitive polymer-nanoshell composites for photothermally modulated drug delivery. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 51, 293-8		601
355	A whole blood immunoassay using gold nanoshells. <i>Analytical Chemistry</i> , 2003 , 75, 2377-81	7.8	595
354	Plasmon Resonance Shifts of Au-Coated Au ₂ S Nanoshells: Insight into Multicomponent Nanoparticle Growth. <i>Physical Review Letters</i> , 1997 , 78, 4217-4220	7.4	590
353	Plasmonic nanostructures: artificial molecules. <i>Accounts of Chemical Research</i> , 2007 , 40, 53-62	24.3	580
352	Nanosphere arrays with controlled sub-10-nm gaps as surface-enhanced raman spectroscopy substrates. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14992-3	16.4	568
351	Formation and Adsorption of Clusters of Gold Nanoparticles onto Functionalized Silica Nanoparticle Surfaces. <i>Langmuir</i> , 1998 , 14, 5396-5401	4	561
350	Substrate-induced Fano resonances of a plasmonic nanocube: a route to increased-sensitivity localized surface plasmon resonance sensors revealed. <i>Nano Letters</i> , 2011 , 11, 1657-63	11.5	556
349	Graphene-antenna sandwich photodetector. <i>Nano Letters</i> , 2012 , 12, 3808-13	11.5	540
348	Fano resonances in plasmonic nanoclusters: geometrical and chemical tunability. <i>Nano Letters</i> , 2010 , 10, 3184-9	11.5	538

347	Gated tunability and hybridization of localized plasmons in nanostructured graphene. <i>ACS Nano</i> , 2013 , 7, 2388-95	16.7	534
346	Surface-enhanced Raman scattering on tunable plasmonic nanoparticle substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17930-5	11.5	520
345	Quantifying hot carrier and thermal contributions in plasmonic photocatalysis. <i>Science</i> , 2018 , 362, 69-72	33.3	494
344	Fluorescence enhancement by Au nanostructures: nanoshells and nanorods. <i>ACS Nano</i> , 2009 , 3, 744-52	16.7	492
343	Linear optical properties of gold nanoshells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 1824	1.7	485
342	Active tunable absorption enhancement with graphene nanodisk arrays. <i>Nano Letters</i> , 2014 , 14, 299-304	11.5	477
341	A cellular Trojan Horse for delivery of therapeutic nanoparticles into tumors. <i>Nano Letters</i> , 2007 , 7, 3759-65	16.5	476
340	Tailoring plasmonic substrates for surface enhanced spectroscopies. <i>Chemical Society Reviews</i> , 2008 , 37, 898-911	58.5	471
339	Infrared extinction properties of gold nanoshells. <i>Applied Physics Letters</i> , 1999 , 75, 2897-2899	3.4	462
338	Plexcitonic nanoparticles: plasmon-exciton coupling in nanoshell-J-aggregate complexes. <i>Nano Letters</i> , 2008 , 8, 3481-7	11.5	457
337	Metal nanoshells. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 15-22	4.7	456
336	Plasmonic colour generation. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	435
335	Silver Nanoshells: Variations in Morphologies and Optical Properties. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2743-2746	3.4	434
334	Aluminum plasmonic nanoantennas. <i>Nano Letters</i> , 2012 , 12, 6000-4	11.5	430
333	Plasmonic hot electron induced structural phase transition in a MoS2 monolayer. <i>Advanced Materials</i> , 2014 , 26, 6467-71	24	429
332	Narrowband photodetection in the near-infrared with a plasmon-induced hot electron device. <i>Nature Communications</i> , 2013 , 4, 1643	17.4	425
331	Close encounters between two nanoshells. <i>Nano Letters</i> , 2008 , 8, 1212-8	11.5	421
330	Surface-enhanced Raman spectroscopy of DNA. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5523-9	16.4	415

329	Plasmonic nanoclusters: near field properties of the Fano resonance interrogated with SERS. <i>Nano Letters</i> , 2012 , 12, 1660-7	11.5	392
328	Emerging opportunities for nanotechnology to enhance water security. <i>Nature Nanotechnology</i> , 2018 , 13, 634-641	28.7	381
327	Preparation and Characterization of Gold Nanoshells Coated with Self-Assembled Monolayers. <i>Langmuir</i> , 2002 , 18, 4915-4920	4	380
326	Hot-electron-induced dissociation of H ₂ on gold nanoparticles supported on SiO ₂ . <i>Journal of the American Chemical Society</i> , 2014 , 136, 64-7	16.4	375
325	Heterodimers: plasmonic properties of mismatched nanoparticle pairs. <i>ACS Nano</i> , 2010 , 4, 819-32	16.7	375
324	Substrates matter: influence of an adjacent dielectric on an individual plasmonic nanoparticle. <i>Nano Letters</i> , 2009 , 9, 2188-92	11.5	372
323	Controlling the surface enhanced Raman effect via the nanoshell geometry. <i>Applied Physics Letters</i> , 2003 , 82, 257-259	3.4	372
322	Near-field mediated plexcitonic coupling and giant Rabi splitting in individual metallic dimers. <i>Nano Letters</i> , 2013 , 13, 3281-6	11.5	365
321	Compact solar autoclave based on steam generation using broadband light-harvesting nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11677-81	11.5	352
320	Evolution of light-induced vapor generation at a liquid-immersed metallic nanoparticle. <i>Nano Letters</i> , 2013 , 13, 1736-42	11.5	346
319	Surface enhanced Raman scattering in the near infrared using metal nanoshell substrates. <i>Journal of Chemical Physics</i> , 1999 , 111, 4729-4735	3.9	339
318	Gold nanoshell-localized photothermal ablation of prostate tumors in a clinical pilot device study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18590-18596	11.5	331
317	Nanoparticles heat through light localization. <i>Nano Letters</i> , 2014 , 14, 4640-5	11.5	320
316	Plasmon-induced doping of graphene. <i>ACS Nano</i> , 2012 , 6, 10222-8	16.7	317
315	Gold nanoparticles can induce the formation of protein-based aggregates at physiological pH. <i>Nano Letters</i> , 2009 , 9, 666-71	11.5	317
314	Fano-like interference in self-assembled plasmonic quadrumer clusters. <i>Nano Letters</i> , 2010 , 10, 4680-5	11.5	314
313	Magnetic-plasmonic core-shell nanoparticles. <i>ACS Nano</i> , 2009 , 3, 1379-88	16.7	303
312	Light-induced release of DNA from gold nanoparticles: nanoshells and nanorods. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12247-55	16.4	299

311	All-optical nanoscale pH meter. <i>Nano Letters</i> , 2006 , 6, 1687-92	11.5	299
310	A plasmonic Fano switch. <i>Nano Letters</i> , 2012 , 12, 4977-82	11.5	291
309	Au nanomatryoshkas as efficient near-infrared photothermal transducers for cancer treatment: benchmarking against nanoshells. <i>ACS Nano</i> , 2014 , 8, 6372-81	16.7	283
308	Applications of nanotechnology to biotechnology commentary. <i>Current Opinion in Biotechnology</i> , 2000 , 11, 215-7	11.4	283
307	Electromigrated nanoscale gaps for surface-enhanced Raman spectroscopy. <i>Nano Letters</i> , 2007 , 7, 1396-400	11.5	280
306	Heterometallic antenna-reactor complexes for photocatalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 8916-20	11.5	272
305	Fanoshells: nanoparticles with built-in Fano resonances. <i>Nano Letters</i> , 2010 , 10, 2694-701	11.5	271
304	Gold nanoshell bioconjugates for molecular imaging in living cells. <i>Optics Letters</i> , 2005 , 30, 1012-4	3	271
303	Photothermal Efficiencies of Nanoshells and Nanorods for Clinical Therapeutic Applications. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12090-12094	3.8	268
302	Independent Optical Control of Microfluidic Valves Formed from Optomechanically Responsive Nanocomposite Hydrogels. <i>Advanced Materials</i> , 2005 , 17, 1366-1368	24	266
301	Simultaneous measurements of electronic conduction and Raman response in molecular junctions. <i>Nano Letters</i> , 2008 , 8, 919-24	11.5	256
300	Distinguishing between plasmon-induced and photoexcited carriers in a device geometry. <i>Nature Communications</i> , 2015 , 6, 7797	17.4	252
299	Scattering Spectra of Single Gold Nanoshells. <i>Nano Letters</i> , 2004 , 4, 2355-2359	11.5	251
298	Three-dimensional nanostructures as highly efficient generators of second harmonic light. <i>Nano Letters</i> , 2011 , 11, 5519-23	11.5	246
297	Symmetry breaking in individual plasmonic nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10856-60	11.5	246
296	Embedding plasmonic nanostructure diodes enhances hot electron emission. <i>Nano Letters</i> , 2013 , 13, 1687-92	11.5	244
295	Vivid, full-color aluminum plasmonic pixels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14348-53	11.5	243
294	Plasmonics: an emerging field fostered by Nano Letters. <i>Nano Letters</i> , 2010 , 10, 3816-22	11.5	243

293	Playing with Plasmons: Tuning the Optical Resonant Properties of Metallic Nanoshells. <i>MRS Bulletin</i> , 2005 , 30, 362-367	3.2	243
292	Dark-pulse propagation in optical fibers. <i>Physical Review Letters</i> , 1988 , 60, 29-32	7.4	242
291	Branched silver nanowires as controllable plasmon routers. <i>Nano Letters</i> , 2010 , 10, 1950-4	11.5	237
290	Aluminum Nanocrystals as a Plasmonic Photocatalyst for Hydrogen Dissociation. <i>Nano Letters</i> , 2016 , 16, 1478-84	11.5	234
289	Nanophotonics-enabled solar membrane distillation for off-grid water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6936-6941	11.5	227
288	Gene silencing by gold nanoshell-mediated delivery and laser-triggered release of antisense oligonucleotide and siRNA. <i>ACS Nano</i> , 2012 , 6, 7681-91	16.7	226
287	Quantum dot-based local field imaging reveals plasmon-based interferometric logic in silver nanowire networks. <i>Nano Letters</i> , 2011 , 11, 471-5	11.5	226
286	Electronic Structure and Optical Properties of Gold Nanoshells. <i>Nano Letters</i> , 2003 , 3, 1411-1415	11.5	226
285	Plasmon-induced selective carbon dioxide conversion on earth-abundant aluminum-cuprous oxide antenna-reactor nanoparticles. <i>Nature Communications</i> , 2017 , 8, 27	17.4	220
284	Plexciton dynamics: exciton-plasmon coupling in a J-aggregate-Au nanoshell complex provides a mechanism for nonlinearity. <i>Nano Letters</i> , 2011 , 11, 1556-60	11.5	219
283	Immunonanoshells for targeted photothermal ablation of tumor cells. <i>International Journal of Nanomedicine</i> , 2006 , 1, 149-54	7.3	219
282	Geometrical Parameters Controlling Sensitivity of Nanoshell Plasmon Resonances to Changes in Dielectric Environment. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17290-17294	3.4	215
281	Label-free detection of DNA hybridization using surface enhanced Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12792-3	16.4	213
280	Light-driven methane dry reforming with single atomic site antenna-reactor plasmonic photocatalysts. <i>Nature Energy</i> , 2020 , 5, 61-70	62.3	213
279	An Atomically Layered InSe Avalanche Photodetector. <i>Nano Letters</i> , 2015 , 15, 3048-55	11.5	201
278	Coherent anti-Stokes Raman scattering with single-molecule sensitivity using a plasmonic Fano resonance. <i>Nature Communications</i> , 2014 , 5, 4424	17.4	201
277	Nanosphere-in-a-Nanoshell: A Simple Nanomatryushka. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7378-7383	11.5	197
276	Mesoscopic Au Nanoparticles. <i>Advanced Materials</i> , 2008 , 20, 820-825	24	195

275	Nanoshells made easy: improving Au layer growth on nanoparticle surfaces. <i>Langmuir</i> , 2008 , 24, 14166-74		193
274	Chiral surface plasmon polaritons on metallic nanowires. <i>Physical Review Letters</i> , 2011 , 107, 096801	7.4	191
273	Nanoshells with Targeted Simultaneous Enhancement of Magnetic and Optical Imaging and Photothermal Therapeutic Response. <i>Advanced Functional Materials</i> , 2009 , 19, 3901-3909	15.6	191
272	Nanoparticle-mediated coupling of light into a nanowire. <i>Nano Letters</i> , 2007 , 7, 2346-50	11.5	191
271	Designing and deconstructing the Fano lineshape in plasmonic nanoclusters. <i>Nano Letters</i> , 2012 , 12, 1058-62	8.6	187
270	Optical spectroscopy of conductive junctions in plasmonic cavities. <i>Nano Letters</i> , 2010 , 10, 3090-5	11.5	187
269	Gold and Silver Nanoparticles Functionalized by the Adsorption of Dialkyl Disulfides. <i>Langmuir</i> , 1998 , 14, 7378-7386	4	184
268	Light scattering from dipole and quadrupole nanoshell antennas. <i>Applied Physics Letters</i> , 1999 , 75, 1063-1065	3.0	183
267	Enhancing the photocurrent and photoluminescence of single crystal monolayer MoS ₂ with resonant plasmonic nanoshells. <i>Applied Physics Letters</i> , 2014 , 104, 031112	3.4	182
266	Fan-shaped gold nanoantennas above reflective substrates for surface-enhanced infrared absorption (SEIRA). <i>Nano Letters</i> , 2015 , 15, 1272-80	11.5	182
265	Plasmonic Properties of Concentric Nanoshells. <i>Nano Letters</i> , 2004 , 4, 1323-1327	11.5	182
264	Removing a wedge from a metallic nanodisk reveals a fano resonance. <i>Nano Letters</i> , 2011 , 11, 4475-9	11.5	181
263	Coherent Fano resonances in a plasmonic nanocluster enhance optical four-wave mixing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9215-9	11.5	180
262	Insight into the mechanism of sidewall functionalization of single-walled nanotubes: an STM study. <i>Chemical Physics Letters</i> , 1999 , 313, 445-450	2.5	180
261	Surface enhanced infrared absorption (SEIRA) spectroscopy on nanoshell aggregate substrates. <i>Chemical Physics Letters</i> , 2008 , 452, 115-119	2.5	179
260	Relative contributions to the plasmon line shape of metal nanoshells. <i>Physical Review B</i> , 2002 , 66,	3.3	176
259	Two-Dimensional Active Tuning of an Aluminum Plasmonic Array for Full-Spectrum Response. <i>Nano Letters</i> , 2017 , 17, 6034-6039	11.5	175
258	Surface-enhanced infrared absorption using individual cross antennas tailored to chemical moieties. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3688-95	16.4	175

257	Influence of dielectric function properties on the optical response of plasmon resonant metallic nanoparticles. <i>Chemical Physics Letters</i> , 2004 , 399, 167-171	2.5	173
256	Fano Resonant Aluminum Nanoclusters for Plasmonic Colorimetric Sensing. <i>ACS Nano</i> , 2015 , 9, 10628-366.7	16.7	172
255	Observing metal-catalyzed chemical reactions in situ using surface-enhanced Raman spectroscopy on Pd-Au nanoshells. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16592-600	16.4	172
254	Generation of subpicosecond electrical pulses on coplanar transmission lines. <i>Applied Physics Letters</i> , 1986 , 48, 751-753	3.4	168
253	Cu nanoshells: effects of interband transitions on the nanoparticle plasmon resonance. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18218-22	3.4	166
252	Fluorescence enhancement of molecules inside a gold nanomatryoshka. <i>Nano Letters</i> , 2014 , 14, 2926-3311.5	11.5	163
251	Plasmonic nanoshell arrays combine surface-enhanced vibrational spectroscopies on a single substrate. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 9040-4	16.4	162
250	Optimized plasmonic nanoparticle distributions for solar spectrum harvesting. <i>Applied Physics Letters</i> , 2006 , 89, 153120	3.4	158
249	Nanoscale control of near-infrared fluorescence enhancement using Au nanoshells. <i>Small</i> , 2008 , 4, 1716-22	11.5	157
248	Balancing Near-Field Enhancement, Absorption, and Scattering for Effective Antenna-Reactor Plasmonic Photocatalysis. <i>Nano Letters</i> , 2017 , 17, 3710-3717	11.5	155
247	Reduced Symmetry Metallodielectric Nanoparticles: Chemical Synthesis and Plasmonic Properties. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7327-7333	3.4	155
246	Nanoshells to nanoeggs to nanocups: optical properties of reduced symmetry core-shell nanoparticles beyond the quasistatic limit. <i>New Journal of Physics</i> , 2008 , 10, 105006	2.9	154
245	Al-Pd Nanodisk Heterodimers as Antenna-Reactor Photocatalysts. <i>Nano Letters</i> , 2016 , 16, 6677-6682	11.5	154
244	Three-dimensional plasmonic nanoclusters. <i>Nano Letters</i> , 2013 , 13, 4399-403	11.5	148
243	Controlled texturing modifies the surface topography and plasmonic properties of Au nanoshells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11083-7	3.4	148
242	Construction of simple gold nanoparticle aggregates with controlled plasmon-plasmon interactions. <i>Chemical Physics Letters</i> , 1999 , 300, 651-655	2.5	145
241	Aluminum nanocrystals. <i>Nano Letters</i> , 2015 , 15, 2751-5	11.5	144
240	Color-selective and CMOS-compatible photodetection based on aluminum plasmonics. <i>Advanced Materials</i> , 2014 , 26, 6318-23	24	144

239	Tracking of multimodal therapeutic nanocomplexes targeting breast cancer in vivo. <i>Nano Letters</i> , 2010 , 10, 4920-8	11.5	142
238	Plasmons in the metallic nanoparticle-film system as a tunable impurity problem. <i>Nano Letters</i> , 2005 , 5, 2009-13	11.5	140
237	Aluminum Nanocrystals: A Sustainable Substrate for Quantitative SERS-Based DNA Detection. <i>Nano Letters</i> , 2017 , 17, 5071-5077	11.5	133
236	Light-bending nanoparticles. <i>Nano Letters</i> , 2009 , 9, 1255-9	11.5	133
235	High Chromaticity Aluminum Plasmonic Pixels for Active Liquid Crystal Displays. <i>ACS Nano</i> , 2016 , 10, 1108-17	16.7	131
234	The surprising in vivo instability of near-IR-absorbing hollow Au-Ag nanoshells. <i>ACS Nano</i> , 2014 , 8, 3222-3231	16.7	131
233	Nanogapped Au Antennas for Ultrasensitive Surface-Enhanced Infrared Absorption Spectroscopy. <i>Nano Letters</i> , 2017 , 17, 5768-5774	11.5	131
232	Metallic nanoshells with semiconductor cores: optical characteristics modified by core medium properties. <i>ACS Nano</i> , 2010 , 4, 6169-79	16.7	129
231	Optoelectronic memory using two-dimensional materials. <i>Nano Letters</i> , 2015 , 15, 259-65	11.5	128
230	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. <i>Science Advances</i> , 2015 , 1, e1500988	14.3	127
229	Optical properties of a nanosized hole in a thin metallic film. <i>ACS Nano</i> , 2008 , 2, 25-32	16.7	126
228	Pronounced Linewidth Narrowing of an Aluminum Nanoparticle Plasmon Resonance by Interaction with an Aluminum Metallic Film. <i>Nano Letters</i> , 2015 , 15, 6946-51	11.5	125
227	Near infrared laser-tissue welding using nanoshells as an exogenous absorber. <i>Lasers in Surgery and Medicine</i> , 2005 , 37, 123-9	3.6	123
226	Visualizing light-triggered release of molecules inside living cells. <i>Nano Letters</i> , 2010 , 10, 4117-4122	11.5	121
225	Light-induced release of DNA from plasmon-resonant nanoparticles: Towards light-controlled gene therapy. <i>Chemical Physics Letters</i> , 2009 , 482, 171-179	2.5	121
224	Noble metal nanowires: from plasmon waveguides to passive and active devices. <i>Accounts of Chemical Research</i> , 2012 , 45, 1887-95	24.3	119
223	Applications of nanoparticles to diagnostics and therapeutics in colorectal cancer. <i>Trends in Biotechnology</i> , 2007 , 25, 145-52	15.1	119
222	Delivery of nanoparticles to brain metastases of breast cancer using a cellular Trojan horse. <i>Cancer Nanotechnology</i> , 2012 , 3, 47-54	7.9	114

221	Profiling the near field of a plasmonic nanoparticle with Raman-based molecular rulers. <i>Nano Letters</i> , 2006 , 6, 2338-43	11.5	112
220	Hot Hole Photoelectrochemistry on Au@SiO@Au Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2060-2067	6.4	110
219	Aromatic amino acids providing characteristic motifs in the Raman and SERS spectroscopy of peptides. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9158-64	3.4	108
218	Magnetic plasmon formation and propagation in artificial aromatic molecules. <i>Nano Letters</i> , 2012 , 12, 364-9	11.5	107
217	Nanoparticle-induced enhancement and suppression of photocurrent in a silicon photodiode. <i>Nano Letters</i> , 2008 , 8, 624-30	11.5	107
216	Effects of dielectric screening on the optical properties of metallic nanoshells. <i>Chemical Physics Letters</i> , 2003 , 368, 94-101	2.5	105
215	Nanoscience under glass: the versatile chemistry of silica nanostructures. <i>ACS Nano</i> , 2008 , 2, 179-83	16.7	104
214	Peptide-assembled optically responsive nanoparticle complexes. <i>Nano Letters</i> , 2007 , 7, 1054-8	11.5	103
213	Response to Comment on "Quantifying hot carrier and thermal contributions in plasmonic photocatalysis". <i>Science</i> , 2019 , 364,	33.3	102
212	Independent optically addressable nanoparticle-polymer optomechanical composites. <i>Applied Physics Letters</i> , 2002 , 80, 4609-4611	3.4	99
211	Time-resolved carrier relaxation in solid C60 thin films. <i>Physical Review B</i> , 1992 , 45, 4548-4550	3.3	99
210	Optically tunable nanoparticle contrast agents for early cancer detection: model-based analysis of gold nanoshells. <i>Journal of Biomedical Optics</i> , 2005 , 10, 064035	3.5	98
209	Charge Transfer Plasmons: Optical Frequency Conductances and Tunable Infrared Resonances. <i>ACS Nano</i> , 2015 , 9, 6428-35	16.7	96
208	Adenine and Adenosine Monophosphate (AMP) Gold Binding Interactions Studied by Surface-Enhanced Raman and Infrared Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14390-14397	3.8	96
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