Jill E Millstone

List of Publications by Year in Descending Order

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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.

69 papers	6,418 citations	35 h-index	80 g-index
85 ext. papers	7,022 ext. citations	11.4 avg, IF	5.85 L-index

#	Paper	IF	Citations
69	Connecting Cation Exchange and Metal Deposition Outcomes via Hume-Rothery-Like Design Rules Using Copper Selenide Nanoparticles. *Journal of the American Chemical Society*, **2021**, 143, 8137-8144	16.4	5
68	Theoretical Study of the Impact of Vacancies and Disorder on the Electronic Properties of Cu2−xSe. *Journal of Physical Chemistry C*, **2021**, 125, 12324-12332	3.8	1
67	Role of bacterial motility in differential resistance mechanisms of silver nanoparticles and silver ions. *Nature Nanotechnology*, **2021**, 16, 996-1003	28.7	25
66	The Design and Science of Polyelemental Nanoparticles. *ACS Nano*, **2020**, 14, 6407-6413	16.7	29
65	Parallelized Screening of Characterized and DFT-Modeled Bimetallic Colloidal Cocatalysts for Photocatalytic Hydrogen Evolution. *ACS Catalysis*, **2020**, 10, 4244-4252	13.1	19
64	Optoelectronic Impacts of Particle Size in Water-Dispersible Plasmonic Copper Selenide Nanoparticles. *Journal of Physical Chemistry C*, **2020**, 124, 4747-4754	3.8	4
63	Efficient Control of Atom Arrangement in Ternary Metal Chalcogenide Nanoparticles Using Precursor Oxidation State. *Chemistry of Materials*, **2020**, 32, 1322-1331	9.6	4
62	Plasmon-Enhanced Chemical Conversion Using Copper Selenide Nanoparticles. *Nano Letters*, **2019**, 19, 2384-2388	11.5	34
61	Surface Chemistry-Mediated Near-Infrared Emission of Small Coinage Metal Nanoparticles. *Accounts of Chemical Research*, **2019**, 52, 695-703	24.3	36
60	Emerging investigator series: connecting concepts of coinage metal stability across length scales. *Environmental Science: Nano*, **2019**, 6, 2674-2696	7.1	3
59	Emerging investigator series: characterization of silver and silver nanoparticle interactions with zinc finger peptides. *Environmental Science: Nano*, **2019**, 6, 2367-2378	7.1	4
58	Zinc-Adeninate Metal-Organic Framework: A Versatile Photoluminescent Sensor for Rare Earth Elements in Aqueous Systems. *ACS Sensors*, **2019**, 4, 1986-1991	9.2	15
57	Multivariate Stratified Metal-Organic Frameworks: Diversification Using Domain Building Blocks. *Journal of the American Chemical Society*, **2019**, 141, 2161-2168	16.4	64
56	Ligand mediated evolution of size dependent magnetism in cobalt nanoclusters. *Physical Chemistry Chemical Physics*, **2018**, 20, 4563-4570	3.6	6
55	Near-Infrared Photoluminescence from Small Copper, Silver, and Gold Nanoparticles. *ChemNanoMat*, **2018**, 4, 265-268	3.5	8
54	Impacts of broth chemistry on silver ion release, surface chemistry composition, and bacterial cytotoxicity of silver nanoparticles. *Environmental Science: Nano*, **2018**, 5, 304-312	7.1	15
53	Emerging investigator series: it's not all about the ion: support for particle-specific contributions to silver nanoparticle antimicrobial activity. *Environmental Science: Nano*, **2018**, 5, 2047-2068	7.1	37

52	Ligand-Mediated Deposition of Noble Metals at Nanoparticle Plasmonic Hotspots. *Langmuir*, **2018**, 34, 1084-1091	4	18
51	Evolution of Surface Copper(II) Environments in Cu2−xSe Nanoparticles. *Chemistry of Materials*, **2018**, 30, 7313-7321	9.6	7
50	Copper(I) and gold(I) thiolate precursors to bimetallic nanoparticles. *Polyhedron*, **2018**, 155, 359-365	2.7	5
49	Nanoscience and Nanotechnology Cross Borders. *ACS Nano*, **2017**, 11, 1123-1126	16.7	3
48	Correlating Carrier Density and Emergent Plasmonic Features in CuSe Nanoparticles. *Nano Letters*, **2017**, 17, 2414-2419	11.5	31
47	Ligand Exchange for Controlling the Surface Chemistry and Properties of Nanoparticle Superstructures. *ChemNanoMat*, **2017**, 3, 745-749	3.5	9
46	Efficient Energy Transfer from Near-Infrared Emitting Gold Nanoparticles to Pendant Ytterbium(III). *Journal of the American Chemical Society*, **2017**, 139, 17767-17770	16.4	10
45	Correlated Absorption and Scattering Spectroscopy of Individual Platinum-Decorated Gold Nanorods Reveals Strong Excitation Enhancement in the Nonplasmonic Metal. *ACS Nano*, **2017**, 11, 12346-12357	16.7	43
44	Ligand Exchange and H NMR Quantification of Single- and Mixed-Moiety Thiolated Ligand Shells on Gold Nanoparticles. *Methods in Molecular Biology*, **2017**, 1570, 17-29	1.4	1
43	Ligand density quantification on colloidal inorganic nanoparticles. *Analyst, The*, **2016**, 142, 11-29	5	63
42	Imaging Energy Transfer in Pt-Decorated Au Nanoprisms via Electron Energy-Loss Spectroscopy. *Journal of Physical Chemistry Letters*, **2016**, 7, 3825-3832	6.4	26
41	Conceptual Analysis for Nanoscience. *Journal of Physical Chemistry Letters*, **2016**, 7, 1917-8	6.4	3
40	Polymeric Gd-DOTA amphiphiles form spherical and fibril-shaped nanoparticle MRI contrast agents. *Chemical Science*, **2016**, 7, 4230-4236	9.4	24
39	Polycatechol Nanoparticle MRI Contrast Agents. *Small*, **2016**, 12, 668-77	11	59
38	Copper Deposition on Gold Nanoprism Substrates. *Israel Journal of Chemistry*, **2016**, 56, 257-261	3.4	4
37	Observation of uniform ligand environments and (31)P-(197)Au coupling in phosphine-terminated Au nanoparticles. *Chemical Communications*, **2016**, 52, 9020-3	5.8	8
36	Surface Chemistry Controls Magnetism in Cobalt Nanoclusters. *Journal of Physical Chemistry C*, **2016**, 120, 20822-20827	3.8	9
35	Impact of As-Synthesized Ligands and Low-Oxygen Conditions on Silver Nanoparticle Surface Functionalization. *Langmuir*, **2016**, 32, 3820-6	4	13

34	Structural and Optical Properties of Discrete Dendritic Pt Nanoparticles on Colloidal Au Nanoprisms. *Journal of Physical Chemistry C*, **2016**, 120, 20843-20851	3.8	23
33	Impacts of Copper Position on the Electronic Structure of [Au25-xCux(SH)18]Nanoclusters. *Journal of Physical Chemistry C*, **2015**, 119, 8290-8298	3.8	24
32	Spatially Mapping Energy Transfer from Single Plasmonic Particles to Semiconductor Substrates via STEM/EELS. *Nano Letters*, **2015**, 15, 3465-71	11.5	66
31	Ligand-Mediated "Turn On," High Quantum Yield Near-Infrared Emission in Small Gold Nanoparticles. *Journal of the American Chemical Society*, **2015**, 137, 14423-9	16.4	71
30	Nanoscopic imaging of energy transfer from single plasmonic particles to semiconductor substrates via STEM/EELS. *Microscopy and Microanalysis*, **2015**, 21, 1909-1910	0.5	
29	NMR Techniques for Noble Metal Nanoparticles. *Chemistry of Materials*, **2015**, 27, 2721-2739	9.6	174
28	Description and Role of Bimetallic Prenucleation Species in the Formation of Small Nanoparticle Alloys. *Journal of the American Chemical Society*, **2015**, 137, 15852-8	16.4	33
27	Quantitative analysis of thiolated ligand exchange on gold nanoparticles monitored by 1H NMR spectroscopy. *Analytical Chemistry*, **2015**, 87, 2771-8	7.8	102
26	Dynamics of soft nanomaterials captured by transmission electron microscopy in liquid water. *Journal of the American Chemical Society*, **2014**, 136, 1162-5	16.4	81
25	Decoupling mechanisms of platinum deposition on colloidal gold nanoparticle substrates. *Journal of the American Chemical Society*, **2014**, 136, 7873-6	16.4	57
24	Gold-Cobalt Nanoparticle Alloys Exhibiting Tunable Compositions, Near-Infrared Emission, and High T2 Relaxivity. *Advanced Functional Materials*, **2014**, 24, 6532-6539	15.6	35
23	Electron Transfer Dynamics of Triphenylamine Dyes Bound to TiO2 Nanoparticles from Femtosecond Stimulated Raman Spectroscopy. *Journal of Physical Chemistry C*, **2013**, 117, 6990-6997	3.8	26
22	Seedless initiation as an efficient, sustainable route to anisotropic gold nanoparticles. *Langmuir*, **2013**, 29, 4396-403	4	37
21	Photoluminescent gold-copper nanoparticle alloys with composition-tunable near-infrared emission. *Journal of the American Chemical Society*, **2013**, 135, 5266-9	16.4	82
20	Efficient small molecule bulk heterojunction solar cells with high fill factors via pyrene-directed molecular self-assembly. *Advanced Materials*, **2011**, 23, 5359-63	24	337
19	Synthesis, properties, and electronic applications of size-controlled poly(3-hexylthiophene) nanoparticles. *Langmuir*, **2010**, 26, 13056-61	4	87
18	Site isolation of emitters within cross-linked polymer nanoparticles for white electroluminescence. *Nano Letters*, **2010**, 10, 1440-4	11.5	38
17	Abnormally Large Plasmonic Shifts in Silica-Protected Gold Triangular Nanoprisms. *Journal of Physical Chemistry C*, **2010**, 114, 7521-7526	3.8	57

16	Plasmonically controlled nucleic acid dehybridization with gold nanoprisms. *ChemPhysChem*, **2009**, 10, 1461-5	3.2	57
15	Surprisingly long-range surface-enhanced Raman scattering (SERS) on Au-Ni multisegmented nanowires. *Angewandte Chemie - International Edition*, **2009**, 48, 4210-2	16.4	79
14	Colloidal gold and silver triangular nanoprisms. *Small*, **2009**, 5, 646-64	11	712
13	On-wire lithography: synthesis, encoding and biological applications. *Nature Protocols*, **2009**, 4, 838-48	18.8	105
12	The role radius of curvature plays in thiolated oligonucleotide loading on gold nanoparticles. *ACS Nano*, **2009**, 3, 418-24	16.7	380
11	Core-shell triangular bifrustums. *Nano Letters*, **2009**, 9, 3038-41	11.5	80
10	Rationally designed nanostructures for surface-enhanced Raman spectroscopy. *Chemical Society Reviews*, **2008**, 37, 885-97	58.5	694
9	Iodide ions control seed-mediated growth of anisotropic gold nanoparticles. *Nano Letters*, **2008**, 8, 2526-9	11.5	344
8	Mechanistic study of photomediated triangular silver nanoprism growth. *Journal of the American Chemical Society*, **2008**, 130, 8337-44	16.4	330
7	Surface plasmon-mediated energy transfer in heterogap Au-Ag nanowires. *Nano Letters*, **2008**, 8, 3446-9	11.5	58
6	DNA-gold triangular nanoprism conjugates. *Small*, **2008**, 4, 2176-80	11	57
5	Nanodisk codes. *Nano Letters*, **2007**, 7, 3849-53	11.5	138
4	Oligonucleotide loading determines cellular uptake of DNA-modified gold nanoparticles. *Nano Letters*, **2007**, 7, 3818-21	11.5	467
3	Plasmon-driven synthesis of triangular core-shell nanoprisms from gold seeds. *Angewandte Chemie - International Edition*, **2007**, 46, 8436-9	16.4	185
2	Separation of tricomponent protein mixtures with triblock nanorods. *Journal of the American Chemical Society*, **2006**, 128, 11825-9	16.4	57
1	Observation of a quadrupole plasmon mode for a colloidal solution of gold nanoprisms. *Journal of the American Chemical Society*, **2005**, 127, 5312-3	16.4	653