

# Christy L Haynes

## List of Publications by Year in descending order

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168  
papers

20,480  
citations

36303

51  
h-index

9861

141  
g-index

168  
all docs

168  
docs citations

168  
times ranked

24269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanosphere Lithography: A Versatile Nanofabrication Tool for Studies of Size-Dependent Nanoparticle Optics. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5599-5611.	2.6	2,330
2	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020, 14, 28-117.	14.6	2,153
3	Cytotoxicity of Graphene Oxide and Graphene in Human Erythrocytes and Skin Fibroblasts. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2607-2615.	8.0	1,206
4	Nanosphere Lithography: Tunable Localized Surface Plasmon Resonance Spectra of Silver Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10549-10556.	2.6	1,192
5	Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 338 A-346 A.	6.5	995
6	Impacts of Mesoporous Silica Nanoparticle Size, Pore Ordering, and Pore Integrity on Hemolytic Activity. <i>Journal of the American Chemical Society</i> , 2010, 132, 4834-4842.	13.7	720
7	Plasmon-Sampled Surface-Enhanced Raman Excitation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7426-7433.	2.6	669
8	Nanoparticle Optics: The Importance of Radiative Dipole Coupling in Two-Dimensional Nanoparticle Arrays. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7337-7342.	2.6	665
9	Toward a Glucose Biosensor Based on Surface-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2003, 125, 588-593.	13.7	623
10	Plasmonic Materials for Surface-Enhanced Sensing and Spectroscopy. <i>MRS Bulletin</i> , 2005, 30, 368-375.	3.5	616
11	Toxicity of Engineered Nanoparticles in the Environment. <i>Analytical Chemistry</i> , 2013, 85, 3036-3049.	6.5	604
12	Recent progress in SERS biosensing. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11551.	2.8	598
13	Metal Film over Nanosphere (MFON) Electrodes for Surface-Enhanced Raman Spectroscopy (SERS): Improvements in Surface Nanostructure Stability and Suppression of Irreversible Loss. <i>Journal of Physical Chemistry B</i> , 2002, 106, 853-860.	2.6	536
14	Stabilization of Silver and Gold Nanoparticles: Preservation and Improvement of Plasmonic Functionalities. <i>Chemical Reviews</i> , 2019, 119, 664-699.	47.7	380
15	A Glucose Biosensor Based on Surface-Enhanced Raman Scattering: Improved Partition Layer, Temporal Stability, Reversibility, and Resistance to Serum Protein Interference. <i>Analytical Chemistry</i> , 2004, 76, 78-85.	6.5	368
16	Surface-enhanced Raman sensors: early history and the development of sensors for quantitative biowarfare agent and glucose detection. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 471-484.	2.5	348
17	Improved tissue cryopreservation using inductive heating of magnetic nanoparticles. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	213
18	Effects of Humic and Fulvic Acids on Silver Nanoparticle Stability, Dissolution, and Toxicity. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8078-8086.	10.0	211

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19	Impacts of gold nanoparticle charge and ligand type on surface binding and toxicity to Gram-negative and Gram-positive bacteria. <i>Chemical Science</i> , 2015, 6, 5186-5196.	7.4	203
20	Surface-enhanced Raman spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	183
21	Critical Considerations in the Biomedical Use of Mesoporous Silica Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 364-374.	4.6	177
22	Understanding Nanoparticle Toxicity Mechanisms To Inform Redesign Strategies To Reduce Environmental Impact. <i>Accounts of Chemical Research</i> , 2019, 52, 1632-1642.	15.6	176
23	Color My Nanoworld. <i>Journal of Chemical Education</i> , 2004, 81, 544A.	2.3	169
24	Functional Assessment of Metal Oxide Nanoparticle Toxicity in Immune Cells. <i>ACS Nano</i> , 2010, 4, 3363-3373.	14.6	155
25	Stability of small mesoporous silicananoparticles in biological media. <i>Chemical Communications</i> , 2011, 47, 532-534.	4.1	155
26	Dichroic Optical Properties of Extended Nanostructures Fabricated Using Angle-Resolved Nanosphere Lithography. <i>Nano Letters</i> , 2003, 3, 939-943.	9.1	153
27	Ultrastable, Redispersible, Small, and Highly Organomodified Mesoporous Silica Nanotherapeutics. <i>Journal of the American Chemical Society</i> , 2011, 133, 20444-20457.	13.7	135
28	Malic Acid Carbon Dots: From Super-resolution Live-Cell Imaging to Highly Efficient Separation. <i>ACS Nano</i> , 2018, 12, 5741-5752.	14.6	135
29	Copper Based Nanomaterials Suppress Root Fungal Disease in Watermelon ( <i>Citrullus lanatus</i> ): Role of Particle Morphology, Composition and Dissolution Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14847-14856.	6.7	133
30	Surface-Enhanced Raman Scattering Detected Temperature Programmed Desorption: Optical Properties, Nanostructure, and Stability of Silver Film over SiO <sub>2</sub> Nanosphere Surfaces. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6907-6915.	2.6	129
31	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. <i>ACS Central Science</i> , 2015, 1, 117-123.	11.3	121
32	Investigation of phosphorous doping effects on polymeric carbon dots: Fluorescence, photostability, and environmental impact. <i>Carbon</i> , 2018, 129, 438-449.	10.3	115
33	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10642-10650.	10.0	103
34	Accounting for biological aggregation in heating and imaging of magnetic nanoparticles. <i>Technology</i> , 2014, 02, 214-228.	1.4	102
35	Synthesis, applications and potential photoluminescence mechanism of spectrally tunable carbon dots. <i>Nanoscale</i> , 2019, 11, 20411-20428.	5.6	96
36	Surface-enhanced Raman scattering detection and discrimination of polychlorinated biphenyls. <i>Vibrational Spectroscopy</i> , 2009, 50, 29-35.	2.2	90

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37	Partition layer-modified substrates for reversible surface-enhanced Raman scattering detection of polycyclic aromatic hydrocarbons. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 303-311.	3.7	89
38	Aptamer-based surface-enhanced Raman scattering detection of ricin in liquid foods. <i>Chemical Science</i> , 2011, 2, 1579.	7.4	86
39	Molecular Affinity Agents for Intrinsic Surface-Enhanced Raman Scattering (SERS) Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31825-31844.	8.0	85
40	Detection of a Foreign Protein in Milk Using Surface-Enhanced Raman Spectroscopy Coupled with Antibody-Modified Silver Dendrites. <i>Analytical Chemistry</i> , 2011, 83, 1510-1513.	6.5	83
41	Impact of TiO <sub>2</sub> Nanoparticles on Growth, Biofilm Formation, and Flavin Secretion in <i>Shewanella oneidensis</i> . <i>Analytical Chemistry</i> , 2013, 85, 5810-5818.	6.5	83
42	Multicolor polymeric carbon dots: synthesis, separation and polyamide-supported molecular fluorescence. <i>Chemical Science</i> , 2021, 12, 2441-2455.	7.4	82
43	Chitosan-Coated Mesoporous Silica Nanoparticle Treatment of <i>Citrullus lanatus</i> (Watermelon): Enhanced Fungal Disease Suppression and Modulated Expression of Stress-Related Genes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19649-19659.	6.7	80
44	On-Chip Evaluation of Shear Stress Effect on Cytotoxicity of Mesoporous Silica Nanoparticles. <i>Analytical Chemistry</i> , 2011, 83, 8377-8382.	6.5	75
45	Characterization of silver ion dissolution from silver nanoparticles using fluoruous-phase ion-selective electrodes and assessment of resultant toxicity to <i>Shewanella oneidensis</i> . <i>Chemical Science</i> , 2013, 4, 2564.	7.4	75
46	Predictable Heating and Positive MRI Contrast from a Mesoporous Silica-Coated Iron Oxide Nanoparticle. <i>Molecular Pharmaceutics</i> , 2016, 13, 2172-2183.	4.6	75
47	Impact of Nanoscale Lithium Nickel Manganese Cobalt Oxide (NMC) on the Bacterium <i>Shewanella oneidensis</i> MR-1. <i>Chemistry of Materials</i> , 2016, 28, 1092-1100.	6.7	70
48	Neutrophil Chemotaxis within a Competing Gradient of Chemoattractants. <i>Analytical Chemistry</i> , 2012, 84, 6070-6078.	6.5	63
49	Preparation of Scalable Silica-Coated Iron Oxide Nanoparticles for Nanowarming. <i>Advanced Science</i> , 2020, 7, 1901624.	11.2	61
50	Quantifying intra- and extracellular aggregation of iron oxide nanoparticles and its influence on specific absorption rate. <i>Nanoscale</i> , 2016, 8, 16053-16064.	5.6	58
51	Analytical Aspects of Nanotoxicology. <i>Analytical Chemistry</i> , 2016, 88, 451-479.	6.5	56
52	Ultraporous Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2015, 27, 3193-3196.	6.7	52
53	Silica Nanoparticle Dissolution Rate Controls the Suppression of <i>Fusarium Wilt</i> of Watermelon ( <i>Citrullus lanatus</i> ). <i>Environmental Science &amp; Technology</i> , 2021, 55, 13513-13522.	10.0	52
54	In solution SERS sensing using mesoporous silica-coated gold nanorods. <i>Analyst</i> , 2016, 141, 5088-5095.	3.5	49

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55	Surface-Enhanced Raman Spectroscopy Detection of Ricin B Chain in Human Blood. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20961-20969.	3.1	47
56	Sensing Food Contaminants: Advances in Analytical Methods and Techniques. <i>Analytical Chemistry</i> , 2021, 93, 23-40.	6.5	47
57	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. <i>CheM</i> , 2018, 4, 2709-2723.	11.7	46
58	A Fresh Look at the Crystal Violet Lab with Handheld Camera Colorimetry. <i>Journal of Chemical Education</i> , 2015, 92, 1692-1695.	2.3	45
59	Growth-Based Bacterial Viability Assay for Interference-Free and High-Throughput Toxicity Screening of Nanomaterials. <i>Analytical Chemistry</i> , 2017, 89, 2057-2064.	6.5	45
60	Influence of the Spatial Distribution of Cationic Functional Groups at Nanoparticle Surfaces on Bacterial Viability and Membrane Interactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 10814-10823.	13.7	45
61	Electrochemical Measurement of Endogenous Serotonin Release from Human Blood Platelets. <i>Analytical Chemistry</i> , 2011, 83, 2598-2604.	6.5	42
62	Rapid and Sensitive in Situ SERS Detection Using Dielectrophoresis. <i>Chemistry of Materials</i> , 2014, 26, 2445-2452.	6.7	42
63	Dynamic silver speciation as studied with fluoros-phase ion-selective electrodes: Effect of natural organic matter on the toxicity and speciation of silver. <i>Science of the Total Environment</i> , 2015, 537, 453-461.	8.0	42
64	Wall teichoic acids govern cationic gold nanoparticle interaction with Gram-positive bacterial cell walls. <i>Chemical Science</i> , 2020, 11, 4106-4118.	7.4	41
65	Rapid detection of a foreign protein in milk using IMS-SERS. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1428-1434.	2.5	40
66	Dark Field Transmission Electron Microscopy as a Tool for Identifying Inorganic Nanoparticles in Biological Matrices. <i>Analytical Chemistry</i> , 2015, 87, 4356-4362.	6.5	40
67	Oxygen Sensing with Perfluorocarbon-Loaded Ultraporous Mesostructured Silica Nanoparticles. <i>ACS Nano</i> , 2017, 11, 5623-5632.	14.6	40
68	Toxicity of Nanoparticles to Brine Shrimp: An Introduction to Nanotoxicity and Interdisciplinary Science. <i>Journal of Chemical Education</i> , 2013, 90, 475-478.	2.3	38
69	“Death and Axes”: Unexpected Ca <sup>2+</sup> Entry Phenologs Predict New Anti-schistosomal Agents. <i>PLoS Pathogens</i> , 2014, 10, e1003942.	4.7	38
70	Quantifying Gold Nanoparticle Concentration in a Dietary Supplement Using Smartphone Colorimetry and Google Applications. <i>Journal of Chemical Education</i> , 2016, 93, 318-321.	2.3	38
71	Quantal Release of Serotonin from Platelets. <i>Analytical Chemistry</i> , 2009, 81, 2935-2943.	6.5	37
72	Critical Role of Membrane Cholesterol in Exocytosis Revealed by Single Platelet Study. <i>ACS Chemical Biology</i> , 2010, 5, 819-828.	3.4	37

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73	Microfluidic-SERS devices for one shot limit-of-detection. <i>Analyst</i> , The, 2014, 139, 3227-3234.	3.5	37
74	Comparative toxicity assessment of novel Si quantum dots and their traditional Cd-based counterparts using bacteria models <i>Shewanella oneidensis</i> and <i>Bacillus subtilis</i> . <i>Environmental Science: Nano</i> , 2018, 5, 1890-1901.	4.3	37
75	Dynamic Measurement of Altered Chemical Messenger Secretion after Cellular Uptake of Nanoparticles Using Carbon-Fiber Microelectrode Amperometry. <i>Analytical Chemistry</i> , 2008, 80, 3431-3437.	6.5	36
76	Effects of Mesoporous Silica Coating and Postsynthetic Treatment on the Transverse Relaxivity of Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 1968-1978.	6.7	35
77	Quantification and biodistribution of iron oxide nanoparticles in the primary clearance organs of mice using T <sub>1</sub> contrast for heating. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 702-712.	3.0	34
78	A molecular fluorophore in citric acid/ethylenediamine carbon dots identified and quantified by multinuclear solid-state nuclear magnetic resonance. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1130-1138.	1.9	34
79	Nanosphere Lithography: Self-Assembled Photonic and Magnetic Materials. <i>Materials Research Society Symposia Proceedings</i> , 2000, 636, 481.	0.1	33
80	Linking nanomaterial properties to biological outcomes: analytical chemistry challenges in nanotoxicology for the next decade. <i>Chemical Communications</i> , 2018, 54, 12787-12803.	4.1	33
81	Amperometric assessment of functional changes in nanoparticle-exposed immune cells: varying Au nanoparticle exposure time and concentration. <i>Analyst</i> , The, 2009, 134, 2293.	3.5	32
82	SERS Detection of Ricin B-Chain via N-Acetyl-Galactosamine Glycopolymers. <i>ACS Sensors</i> , 2016, 1, 842-846.	7.8	32
83	Using an environmentally-relevant panel of Gram-negative bacteria to assess the toxicity of polyallylamine hydrochloride-wrapped gold nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 279-288.	4.3	32
84	Molecular Surface Functionalization of Carbon Materials via Radical-Induced Grafting of Terminal Alkenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 8277-8288.	13.7	31
85	Assessment of functional changes in nanoparticle-exposed neuroendocrine cells with amperometry: exploring the generalizability of nanoparticle-vesicle matrix interactions. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 677-688.	3.7	30
86	Investigation of noble metal nanoparticle-potential effects on single-cell exocytosis function in vitro with carbon-fiber microelectrode amperometry. <i>Analyst</i> , The, 2011, 136, 3478-3486.	3.5	30
87	Electroanalytical Eavesdropping on Single Cell Communication. <i>Analytical Chemistry</i> , 2011, 83, 7242-7249.	6.5	30
88	Characterization of Magnetic Nanoparticles in Biological Matrices. <i>Analytical Chemistry</i> , 2015, 87, 11611-11619.	6.5	30
89	Quantification of Free Polyelectrolytes Present in Colloidal Suspension, Revealing a Source of Toxic Responses for Polyelectrolyte-Wrapped Gold Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 1823-1830.	6.5	29
90	Quantitative and Real-Time Detection of Secretion of Chemical Messengers from Individual Platelets. <i>Biochemistry</i> , 2008, 47, 7020-7024.	2.5	28

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91	Carbon Dots: A Modular Activity To Teach Fluorescence and Nanotechnology at Multiple Levels. <i>Journal of Chemical Education</i> , 2017, 94, 1143-1149.	2.3	28
92	Influence of nickel manganese cobalt oxide nanoparticle composition on toxicity toward <i>Shewanella oneidensis</i> MR-1: redesigning for reduced biological impact. <i>Environmental Science: Nano</i> , 2017, 4, 636-646.	4.3	27
93	Neuropeptide-Induced Mast Cell Degranulation and Characterization of Signaling Modulation in Response to IgE Conditioning. <i>ACS Chemical Biology</i> , 2016, 11, 3077-3083.	3.4	25
94	A versatile microfluidic platform for the study of cellular interactions between endothelial cells and neutrophils. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1122-1130.	2.4	25
95	Influence of Nanoparticle Morphology on Ion Release and Biological Impact of Nickel Manganese Cobalt Oxide (NMC) Complex Oxide Nanomaterials. <i>ACS Applied Nano Materials</i> , 2018, 1, 1721-1730.	5.0	25
96	Microstructures and pharmaceutical properties of ferulic acid agglomerates prepared by different spherical crystallization methods. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118914.	5.2	25
97	Photochemical Transformations of Carbon Dots in Aqueous Environments. <i>Environmental Science &amp; Technology</i> , 2020, 54, 4160-4170.	10.0	24
98	Size dependent oxidative stress response of the gut of <i>Daphnia magna</i> to functionalized nanodiamond particles. <i>Environmental Research</i> , 2018, 167, 267-275.	7.5	23
99	Novel Quasi-Emulsion Solvent Diffusion-Based Spherical CocrySTALLIZATION Strategy for Simultaneously Improving the Manufacturability and Dissolution of Indomethacin. <i>Crystal Growth and Design</i> , 2020, 20, 6752-6762.	3.0	23
100	Plasmon-Enabled Study of Self-Assembled Alkanethiol Ordering on Roughened Ag Substrates. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3585-3593.	3.1	22
101	Chronic exposure to complex metal oxide nanoparticles elicits rapid resistance in <i>Shewanella oneidensis</i> MR-1. <i>Chemical Science</i> , 2019, 10, 9768-9781.	7.4	22
102	Enhancing Graduate Student Communication to General Audiences through Blogging about Nanotechnology and Sustainability. <i>Journal of Chemical Education</i> , 2014, 91, 1600-1605.	2.3	21
103	Facile method to stain the bacterial cell surface for super-resolution fluorescence microscopy. <i>Analyst</i> , 2014, 139, 3174-3178.	3.5	20
104	Adverse Interactions of Luminescent Semiconductor Quantum Dots with Liposomes and <i>Shewanella oneidensis</i> . <i>ACS Applied Nano Materials</i> , 2018, 1, 4788-4800.	5.0	20
105	The effects of co-culture of fibroblasts on mast cell exocytotic release characteristics as evaluated by carbon-fiber microelectrode amperometry. <i>Biophysical Chemistry</i> , 2008, 137, 63-69.	2.8	19
106	Analytical Characterization of the Role of Phospholipids in Platelet Adhesion and Secretion. <i>Analytical Chemistry</i> , 2015, 87, 413-421.	6.5	19
107	Release, detection and toxicity of fragments generated during artificial accelerated weathering of CdSe/ZnS and CdSe quantum dot polymer composites. <i>Environmental Science: Nano</i> , 2018, 5, 1694-1710.	4.3	19
108	Carbon-Fiber Microelectrode Amperometry Reveals Sick-Cell-Induced Inflammation and Chronic Morphine Effects on Single Mast Cells. <i>ACS Chemical Biology</i> , 2012, 7, 543-551.	3.4	18



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109	Isothermal Titration Calorimetry for the Screening of Aflatoxin B1 Surface-Enhanced Raman Scattering Sensor Affinity Agents. <i>Analytical Chemistry</i> , 2018, 90, 13409-13418.	6.5	18
110	Quaternary Amine-Terminated Quantum Dots Induce Structural Changes to Supported Lipid Bilayers. <i>Langmuir</i> , 2018, 34, 12369-12378.	3.5	18
111	Nickel enrichment of next-generation NMC nanomaterials alters material stability, causing unexpected dissolution behavior and observed toxicity to <i>S. oneidensis</i> MR-1 and <i>D. magna</i> . <i>Environmental Science: Nano</i> , 2020, 7, 571-587.	4.3	18
112	Optimizing linear polymer affinity agent properties for surface-enhanced Raman scattering detection of aflatoxin B1. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 1019-1031.	3.4	17
113	Plasmon Scanned Surface-Enhanced Raman Scattering Excitation Profiles. <i>Materials Research Society Symposia Proceedings</i> , 2002, 728, 1071.	0.1	16
114	Expanding the Educational Toolset for Chemistry Outreach: Providing a Chemical View of Climate Change through Hands-On Activities and Demonstrations Supplemented with TED-Ed Videos. <i>Journal of Chemical Education</i> , 2018, 95, 985-990.	2.3	16
115	Multidimensional Nanoparticle Characterization through Ion Mobility-Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 2503-2510.	6.5	16
116	Nanosphere Lithography: Synthesis and Application of Nanoparticles with Inherently Anisotropic Structures and Surface Chemistry. <i>Materials Research Society Symposia Proceedings</i> , 2001, 635, C6.3.1.	0.1	15
117	Quantal Regulation and Exocytosis of Platelet Dense-Body Granules. <i>Biophysical Journal</i> , 2011, 101, 2351-2359.	0.5	15
118	Ion-Mobility-Based Quantification of Surface-Coating-Dependent Binding of Serum Albumin to Superparamagnetic Iron Oxide Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24482-24490.	8.0	15
119	Research highlights: unveiling the mechanisms underlying nanoparticle-induced ROS generation and oxidative stress. <i>Environmental Science: Nano</i> , 2016, 3, 940-945.	4.3	15
120	TiO2 nanoparticle-induced ROS correlates with modulated immune cell function. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	14
121	A mechanistic study of TiO2 nanoparticle toxicity on <i>Shewanella oneidensis</i> MR-1 with UV-containing simulated solar irradiation: Bacterial growth, riboflavin secretion, and gene expression. <i>Chemosphere</i> , 2017, 168, 1158-1168.	8.2	14
122	Optically Detected Magnetic Resonance for Selective Imaging of Diamond Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 769-776.	6.5	14
123	Toxicity Evaluation of Boron- and Phosphorus-Doped Silicon Nanocrystals toward <i>Shewanella oneidensis</i> MR-1. <i>ACS Applied Nano Materials</i> , 2018, 1, 4884-4893.	5.0	14
124	Optimization of film over nanosphere substrate fabrication for SERS sensing of the allergen soybean agglutinin. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 482-490.	2.5	14
125	Structure-Property Relationships of Amine-rich and Membrane-Disruptive Poly(oxonorbornene)-Coated Gold Nanoparticles. <i>Langmuir</i> , 2018, 34, 4614-4625.	3.5	13
126	Interactions between Silica-Coated Gold Nanorod Substrates and Hydrophobic Analytes in Colloidal Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24685-24697.	3.1	13



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127	Platelet membrane variations and their effects on $\alpha$ -granule secretion kinetics and aggregation spreading among different species. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1609-1618.	2.6	12
128	HDL-AuNPs-BMS Nanoparticle Conjugates as Molecularly Targeted Therapy for Leukemia. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 14454-14462.	8.0	12
129	Unconventional aliphatic fluorophores discovered as the luminescence origin in citric acid-urea carbon dots. <i>Nanoscale</i> , 2022, 14, 9516-9525.	5.6	12
130	Coffee Cup Atomic Force Microscopy. <i>Journal of Chemical Education</i> , 2010, 87, 306-307.	2.3	11
131	Activities for Middle School Students To Sleuth a Chemistry "Whodunit" and Investigate the Scientific Method. <i>Journal of Chemical Education</i> , 2014, 91, 410-413.	2.3	11
132	Single-cell analysis of mast cell degranulation induced by airway smooth muscle-secreted chemokines. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1862-1868.	2.4	11
133	Preparation of Colloidally Stable Positively Charged Hollow Silica Nanoparticles: Effect of Minimizing Hydrolysis on $\zeta$ Potentials. <i>Langmuir</i> , 2019, 35, 7985-7994.	3.5	11
134	Variations in Fusion Pore Formation in Cholesterol-Treated Platelets. <i>Biophysical Journal</i> , 2016, 110, 922-929.	0.5	10
135	Establishing the overlap of IONP quantification with echo and echoless MR relaxation mapping. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1420-1428.	3.0	10
136	Effect of Silica Supports on Plasmonic Heating of Molecular Adsorbates as Measured by Ultrafast Surface-Enhanced Raman Thermometry. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40577-40584.	8.0	10
137	Multiplex surface-enhanced Raman scattering detection of deoxynivalenol and ochratoxin A with a linear polymer affinity agent. <i>Materials Advances</i> , 2020, 1, 3256-3266.	5.4	10
138	Time- and Concentration-Dependent Effects of Exogenous Serotonin and Inflammatory Cytokines on Mast Cell Function. <i>ACS Chemical Biology</i> , 2014, 9, 503-509.	3.4	9
139	Research highlights: speciation and transformations of silver released from Ag NPs in three species. <i>Environmental Science: Nano</i> , 2016, 3, 1236-1240.	4.3	9
140	Coating iron oxide nanoparticles with mesoporous silica reduces their interaction and impact on <i>S. Aoneidensis</i> MR-1. <i>Chemosphere</i> , 2019, 237, 124511.	8.2	9
141	Cobalt Release from a Nanoscale Multiphase Lithiated Cobalt Phosphate Dominates Interaction with <i>Shewanella oneidensis</i> MR-1 and <i>Bacillus subtilis</i> SB491. <i>Chemical Research in Toxicology</i> , 2020, 33, 806-816.	3.3	9
142	Exploring inflammatory disease drug effects on neutrophil function. <i>Analyst</i> , The, 2014, 139, 4056-4063.	3.5	8
143	Nanoscale battery cathode materials induce DNA damage in bacteria. <i>Chemical Science</i> , 2020, 11, 11244-11258.	7.4	8
144	Bacterial Toxicity of Germanium Nanocrystals Induced by Doping with Boron and Phosphorus. <i>ACS Applied Nano Materials</i> , 2019, 2, 4744-4755.	5.0	7

#	ARTICLE	IF	CITATIONS
145	The bench scientist's perspective on the unique considerations in nanoparticle regulation. Journal of Nanoparticle Research, 2011, 13, 1389-1400.	1.9	6
146	NGenE 2021: Electrochemistry Is Everywhere. ACS Energy Letters, 2022, 7, 368-374.	17.4	6
147	A Macroscale Model for Hands-On Activities Demonstrating Transmission Electron Microscopy. Journal of Chemical Education, 2019, 96, 1377-1382.	2.3	5
148	Characterization of the Presence and Function of Platelet Opioid Receptors. ACS Measurement Science Au, 2022, 2, 4-13.	4.4	5
149	Isotope-dilution UPLC-MS/MS determination of cell-secreted bioactive lipids. Analyst, The, 2013, 138, 5697.	3.5	4
150	A finite-element model of granular serotonin exocytosis. Integrative Biology (United Kingdom), 2017, 9, 248-256.	1.3	4
151	Development of a Highly Responsive Organofluorine Temperature Sensor for <sup>19</sup> F Magnetic Resonance Applications. Analytical Chemistry, 2022, 94, 3782-3790.	6.5	4
152	Effect of (3-aminopropyl)triethoxysilane on dissolution of silica nanoparticles synthesized via reverse micro emulsion. Nanoscale, 2022, 14, 9021-9030.	5.6	4
153	Self-Assembled Plasmonic Nanoring Cavity Arrays for SERS and LSPR Biosensing (Adv. Mater. 19/2013). Advanced Materials, 2013, 25, 2677-2677.	21.0	3
154	Investigation of the Post-Synthetic Confinement of Fluorous Liquids Inside Mesoporous Silica Nanoparticles. Langmuir, 2021, 37, 5222-5231.	3.5	3
155	Insight into the Effects of Plasmodium chabaudi on Platelets Using Carbon-Fiber Microelectrode Amperometry. ACS Infectious Diseases, 2019, 5, 592-597.	3.8	2
156	Introducing Analytical Chemistry's Diversity and Inclusion Cover Art Series. Analytical Chemistry, 2021, 93, 1211-1212.	6.5	2
157	Preface to the special issue dedicated to Professor Richard P. Van Duyne (1945-2019). Journal of Raman Spectroscopy, 2021, 52, 263-267.	2.5	2
158	Stereochemistry- and concentration-dependent effects of phosphatidylserine enrichment on platelet function. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1381-1387.	2.6	1
159	Are Women Scientists Getting the Credit They Deserve?. Analytical Chemistry, 2017, 89, 7817-7817.	6.5	1
160	Checkpoints for preliminary identification of small molecules found enriched in autophagosomes and activated mast cell secretions analyzed by comparative UPLC/MS. Analytical Methods, 2017, 9, 46-54.	2.7	1
161	Facile benchtop reactor design using dendrimer-templating technology for the fabrication of polyethyleneimine-coated CuO nanoparticles on the gram scale. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 041402.	2.1	1
162	Richard P. Van Duyne, plasmonics pioneer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22891-22893.	7.1	1

#	ARTICLE	IF	CITATIONS
163	Antimalarial drugs impact chemical messenger secretion by blood platelets. Biochemistry and Biophysics Reports, 2020, 22, 100758.	1.3	1
164	Dynamin-Related Protein-1 Controls Fusion Pore Dynamics During Platelet Granule Secretion and Thrombus Formation In Vivo. Blood, 2011, 118, 361-361.	1.4	1
165	Surface-Enhanced Raman Scattering (SERS) Detection of a Bioactive Mediator. , 2010, , .		0
166	Virtual Issue Highlighting Selected Women Analytical Chemists. Analytical Chemistry, 2018, 90, 1433-1433.	6.5	0
167	Virtual Issue in Honor of Prof. Richard Van Duyne (1945â€“2019). Analytical Chemistry, 2020, 92, 4165-4166.	6.5	0
168	Plasmodium chabaudi Affects Mast Cell Degranulation as Measured by Carbon-Fiber Microelectrode Amperometry. ACS Infectious Diseases, 2021, 7, 1650-1656.	3.8	0