

Ramon A Alvarez-Puebla

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201
papers

14,006
citations

64
h-index

114
g-index

224
ext. papers

15,848
ext. citations

8.6
avg, IF

6.79
L-index

#	Paper	IF	Citations
201	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
200	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
199	Zeptomol detection through controlled ultrasensitive surface-enhanced Raman scattering. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4616-8	16.4	479
198	Gold nanorods 3D-supercrystals as surface enhanced Raman scattering spectroscopy substrates for the rapid detection of scrambled prions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8157-61	11.5	383
197	Tuning size and sensing properties in colloidal gold nanostars. <i>Langmuir</i> , 2010 , 26, 14943-50	4	378
196	SERS-based diagnosis and biodetection. <i>Small</i> , 2010 , 6, 604-10	11	355
195	Plasmonic nanosensors with inverse sensitivity by means of enzyme-guided crystal growth. <i>Nature Materials</i> , 2012 , 11, 604-7	27	350
194	CuTe nanocrystals: shape and size control, plasmonic properties, and use as SERS probes and photothermal agents. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7098-101	16.4	342
193	Au@pNIPAM colloids as molecular traps for surface-enhanced, spectroscopic, ultra-sensitive analysis. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 138-43	16.4	263
192	Traps and cages for universal SERS detection. <i>Chemical Society Reviews</i> , 2012 , 41, 43-51	58.5	262
191	Light Concentration at the Nanometer Scale. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2428-2434	6.4	258
190	Surface-enhanced Raman scattering on colloidal nanostructures. <i>Advances in Colloid and Interface Science</i> , 2005 , 116, 45-61	14.3	243
189	Surface Modifications of Nanoparticles for Stability in Biological Fluids. <i>Materials</i> , 2018 , 11,	3.5	240
188	Controlled assembly of plasmonic colloidal nanoparticle clusters. <i>Nanoscale</i> , 2011 , 3, 1304-15	7.7	228
187	Role of nanoparticle surface charge in surface-enhanced Raman scattering. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3787-92	3.4	225
186	SERS detection of small inorganic molecules and ions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11214-23	16.4	210
185	Surface Enhanced Raman Scattering Using Star-Shaped Gold Colloidal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7336-7340	3.8	195

184	Effects of the Excitation Wavelength on the SERS Spectrum. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 857-66	6.4	188
183	Highly controlled silica coating of PEG-capped metal nanoparticles and preparation of SERS-encoded particles. <i>Langmuir</i> , 2009 , 25, 13894-9	4	176
182	Nanoimprinted SERS-Active Substrates with Tunable Surface Plasmon Resonances. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6720-6723	3.8	163
181	Surface-enhanced Raman scattering biomedical applications of plasmonic colloidal particles. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 4, S435-50	4.1	157
180	Surface-enhanced Raman scattering for ultrasensitive chemical analysis of 1 and 2-naphthalenethiols. <i>Analyst, The</i> , 2004 , 129, 1251-6	5	145
179	SERS-active gold lace nanoshells with built-in hotspots. <i>Nano Letters</i> , 2010 , 10, 4013-9	11.5	142
178	Environmental applications of plasmon assisted Raman scattering. <i>Energy and Environmental Science</i> , 2010 , 3, 1011	35.4	140
177	Synthesis and SERS Properties of Nanocrystalline Gold Octahedra Generated from Thermal Decomposition of HAuCl ₄ in Block Copolymers. <i>Advanced Materials</i> , 2006 , 18, 3233-3237	24	138
176	Organized plasmonic clusters with high coordination number and extraordinary enhancement in surface-enhanced Raman scattering (SERS). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12688-93	16.4	137
175	Design of SERS-encoded, submicron, hollow particles through confined growth of encapsulated metal nanoparticles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2699-705	16.4	133
174	Direct surface-enhanced Raman scattering analysis of DNA duplexes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1144-8	16.4	124
173	Direct surface-enhanced Raman scattering (SERS) spectroscopy of nucleic acids: from fundamental studies to real-life applications. <i>Chemical Society Reviews</i> , 2018 , 47, 4909-4923	58.5	121
172	Highly uniform SERS substrates formed by wrinkle-confined drying of gold colloids. <i>Chemical Science</i> , 2010 , 1, 174	9.4	119
171	Modulation of Localized Surface Plasmons and SERS Response in Gold Dumbbells through Silver Coating. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10417-10423	3.8	118
170	Intracellular mapping with SERS-encoded gold nanostars. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 922-6	3.7	116
169	Influence of Iodide Ions on the Growth of Gold Nanorods: Tuning Tip Curvature and Surface Plasmon Resonance. <i>Advanced Functional Materials</i> , 2008 , 18, 3780-3786	15.6	112
168	Multiplex optical sensing with surface-enhanced Raman scattering: a critical review. <i>Analytica Chimica Acta</i> , 2012 , 745, 10-23	6.6	111
167	Loading of exponentially grown LBL films with silver nanoparticles and their application to generalized SERS detection. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5326-9	16.4	111

166	The effect of surface roughness on the plasmonic response of individual sub-micron gold spheres. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5909-14	3.6	107
165	Silver nanowire layer-by-layer films as substrates for surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , 2005 , 77, 378-82	7.8	107
164	Reshaping and LSPR tuning of Au nanostars in the presence of CTAB. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11544		97
163	Chemical seeded growth of Ag nanoparticle arrays and their application as reproducible SERS substrates. <i>Nano Today</i> , 2010 , 5, 21-27	17.9	96
162	Highly sensitive SERS quantification of the oncogenic protein c-Jun in cellular extracts. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10314-7	16.4	95
161	Recyclable molecular trapping and SERS detection in silver-loaded agarose gels with dynamic hot spots. <i>Analytical Chemistry</i> , 2009 , 81, 9233-8	7.8	93
160	Highly Catalytic Single-Crystal Dendritic Pt Nanostructures Supported on Carbon Nanotubes. <i>Chemistry of Materials</i> , 2009 , 21, 1531-1535	9.6	93
159	Self-Assembly of Au@Ag Nanorods Mediated by Gemini Surfactants for Highly Efficient SERS-Active Supercrystals. <i>Advanced Optical Materials</i> , 2013 , 1, 477-481	8.1	91
158	Multifunctional microgel magnetic/optical traps for SERS ultradetection. <i>Langmuir</i> , 2011 , 27, 4520-5	4	91
157	Label-free SERS detection of relevant bioanalytes on silver-coated carbon nanotubes: The case of cocaine. <i>Nanoscale</i> , 2009 , 1, 153-8	7.7	91
156	Synthesis of silver nanoparticles with controllable surface charge and their application to surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , 2009 , 81, 2280-5	7.8	89
155	Surface-enhanced raman scattering on dendrimer/metallic nanoparticle layer-by-layer film substrates. <i>Langmuir</i> , 2005 , 21, 5576-81	4	88
154	SERS detection of environmental pollutants in humic acid-gold nanoparticle composite materials. <i>Analyst, The</i> , 2007 , 132, 1210-4	5	87
153	Large-area organization of pNIPAM-coated nanostars as SERS platforms for polycyclic aromatic hydrocarbons sensing in gas phase. <i>Langmuir</i> , 2012 , 28, 9168-73	4	84
152	Theoretical study on fulvic acid structure, conformation and aggregation. A molecular modelling approach. <i>Science of the Total Environment</i> , 2006 , 358, 243-54	10.2	84
151	Effect of pH on the aggregation of a gray humic acid in colloidal and solid states. <i>Chemosphere</i> , 2005 , 59, 659-67	8.4	84
150	Universal One-Pot and Scalable Synthesis of SERS Encoded Nanoparticles. <i>Chemistry of Materials</i> , 2015 , 27, 950-958	9.6	81
149	SERS Quantification and Characterization of Proteins and Other Biomolecules. <i>Langmuir</i> , 2017 , 33, 9711-9730	7.730	80

148	Surface-enhanced Raman scattering on nanoshells with tunable surface plasmon resonance. <i>Langmuir</i> , 2005 , 21, 10504-8	4	79
147	Revealing DNA interactions with exogenous agents by surface-enhanced Raman scattering. <i>Journal of the American Chemical Society</i> , 2015 , 137, 469-76	16.4	77
146	Simultaneous SERS detection of copper and cobalt at ultratrace levels. <i>Nanoscale</i> , 2013 , 5, 5841-6	7.7	73
145	Growing Au/Ag nanoparticles within microgel colloids for improved surface-enhanced Raman scattering detection. <i>Chemistry - A European Journal</i> , 2010 , 16, 9462-7	4.8	72
144	SERS Detection of Amyloid Oligomers on Metallorganic-Decorated Plasmonic Beads. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9420-8	9.5	71
143	Chemical speciation of heavy metals by surface-enhanced Raman scattering spectroscopy: identification and quantification of inorganic- and methyl-mercury in water. <i>Nanoscale</i> , 2014 , 6, 8368-75	7.7	71
142	Controlling the size and shape of gold nanoparticles in fulvic acid colloidal solutions and their optical characterization using SERS. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3045		70
141	Quantitative surface-enhanced Raman scattering ultradetection of atomic inorganic ions: the case of chloride. <i>ACS Nano</i> , 2011 , 5, 7539-46	16.7	69
140	Macroscale plasmonic substrates for highly sensitive surface-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6459-63	16.4	67
139	Retention of Co(II), Ni(II), and Cu(II) on a purified brown humic acid. Modeling and characterization of the sorption process. <i>Langmuir</i> , 2004 , 20, 3657-64	4	67
138	Plasmonic nanoprobe for real-time optical monitoring of nitric oxide inside living cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13694-8	16.4	64
137	Bifunctional Nanocomposites with Long-Term Stability as SERS Optical Accumulators for Ultrasensitive Analysis. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3373-3377	3.8	63
136	Plasmonic Mesoporous Composites as Molecular Sieves for SERS Detection. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2715-2720	6.4	61
135	Growth of Sharp Tips on Gold Nanowires Leads to Increased Surface-Enhanced Raman Scattering Activity. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 24-7	6.4	60
134	Synthetic Routes and Plasmonic Properties of Noble Metal Nanoplates. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4288-4297	2.3	60
133	Surface-Enhanced Raman Scattering Surface Selection Rules for the Proteomic Liquid Biopsy in Real Samples: Efficient Detection of the Oncoprotein c-MYC. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14206-14209	16.4	60
132	Aqueous Stable Gold Nanostar/ZIF-8 Nanocomposites for Light-Triggered Release of Active Cargo Inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7078-7082	16.4	58
131	Nanoreactors for simultaneous remote thermal activation and optical monitoring of chemical reactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13616-9	16.4	57

130	Quantitative Particle-Cell Interaction: Some Basic Physicochemical Pitfalls. <i>Langmuir</i> , 2017 , 33, 6639-6646	4	56
129	Self-assembled nanorod supercrystals for ultrasensitive SERS diagnostics. <i>Nano Today</i> , 2012 , 7, 6-9	17.9	53
128	Spiked gold beads as substrates for single-particle SERS. <i>ChemPhysChem</i> , 2012 , 13, 2561-5	3.2	53
127	Optical Sensing of Small Ions with Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2012 , 24, 738-745	9.6	52
126	Spectroscopically encoded microspheres for antigen biosensing. <i>Langmuir</i> , 2007 , 23, 6482-5	4	52
125	Three-Dimensional Surface-Enhanced Raman Scattering Platforms: Large-Scale Plasmonic Hotspots for New Applications in Sensing, Microreaction, and Data Storage. <i>Accounts of Chemical Research</i> , 2019 , 52, 1844-1854	24.3	51
124	Cu(II) retention on a humic substance. <i>Journal of Colloid and Interface Science</i> , 2004 , 270, 47-55	9.3	51
123	Surface-Enhanced Raman Spectroscopy in Cancer Diagnosis, Prognosis and Monitoring. <i>Cancers</i> , 2019 , 11,	6.6	50
122	Ultrasensitive Direct Quantification of Nucleobase Modifications in DNA by Surface-Enhanced Raman Scattering: The Case of Cytosine. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13650-4	16.4	50
121	Silicon nanoparticles as Raman scattering enhancers. <i>Nanoscale</i> , 2014 , 6, 5666-70	7.7	48
120	Surface-Enhanced Raman scattering-based detection of the interactions between the essential cell division FtsZ protein and bacterial membrane elements. <i>ACS Nano</i> , 2012 , 6, 7514-20	16.7	48
119	Controlling inter-nanoparticle coupling by wrinkle-assisted assembly. <i>Soft Matter</i> , 2011 , 7, 4093	3.6	48
118	From nano to micro: synthesis and optical properties of homogeneous spheroidal gold particles and their superlattices. <i>Langmuir</i> , 2012 , 28, 8909-14	4	47
117	Ultrasensitive multiplex optical quantification of bacteria in large samples of biofluids. <i>Scientific Reports</i> , 2016 , 6, 29014	4.9	45
116	Cancer characterization and diagnosis with SERS-encoded particles. <i>Cancer Nanotechnology</i> , 2017 , 8,	7.9	42
115	Fast Optical Chemical and Structural Classification of RNA. <i>ACS Nano</i> , 2016 , 10, 2834-42	16.7	41
114	Direct Quantification of DNA Base Composition by Surface-Enhanced Raman Scattering Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3037-41	6.4	40
113	Optical Enhancing Properties of Anisotropic Gold Nanoplates Prepared with Different Fractions of a Natural Humic Substance. <i>Chemistry of Materials</i> , 2008 , 20, 1516-1521	9.6	40

112	Chemically stable silver nanoparticle-crosslinked polymer microspheres. <i>Journal of Colloid and Interface Science</i> , 2008 , 319, 572-6	9.3	40
111	Conformational SERS Classification of K-Ras Point Mutations for Cancer Diagnostics. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2381-2385	16.4	39
110	Silver colloids as plasmonic substrates for direct label-free surface-enhanced Raman scattering analysis of DNA. <i>Analyst, The</i> , 2016 , 141, 5170-80	5	39
109	A study of the depth and size of concave cube Au nanoparticles as highly sensitive SERS probes. <i>Nanoscale</i> , 2016 , 8, 7326-33	7.7	38
108	Direct Surface-Enhanced Raman Scattering Analysis of DNA Duplexes. <i>Angewandte Chemie</i> , 2015 , 127, 1160-1164	3.6	37
107	Online SERS Quantification of Staphylococcus aureus and the Application to Diagnostics in Human Fluids. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600163	6.8	36
106	Microdroplet fabrication of silver agarose nanocomposite beads for SERS optical accumulation. <i>Soft Matter</i> , 2011 , 7, 1321-1325	3.6	35
105	Nanoparticle-based mobile biosensors for the rapid detection of sepsis biomarkers in whole blood. <i>Nanoscale Advances</i> , 2020 , 2, 1253-1260	5.1	34
104	Gold colloids with unconventional angled shapes. <i>Langmuir</i> , 2009 , 25, 11431-5	4	34
103	Boosting the Quantitative Inorganic Surface-Enhanced Raman Scattering Sensing to the Limit: The Case of Nitrite/Nitrate Detection. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 868-74	6.4	33
102	SERS chiral recognition and quantification of enantiomers through cyclodextrin supramolecular complexation. <i>ChemPhysChem</i> , 2011 , 12, 1529-35	3.2	33
101	SERS-active Ag/Au bimetallic nanoalloys on Si/SiO(x). <i>Journal of Colloid and Interface Science</i> , 2009 , 333, 237-41	9.3	32
100	Modular assembly of plasmonic core-satellite structures as highly brilliant SERS-encoded nanoparticles. <i>Nanoscale Advances</i> , 2019 , 1, 122-131	5.1	31
99	Particle and surface characterization of a natural illite and study of its copper retention. <i>Journal of Colloid and Interface Science</i> , 2005 , 285, 41-9	9.3	30
98	Characterization of the porous structure of different humic fractions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 256, 129-135	5.1	30
97	Online Flowing Colloidosomes for Sequential Multi-analyte High-Throughput SERS Analysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5565-5569	16.4	29
96	SERS-fluorescent encoded particles as dual-mode optical probes. <i>Applied Materials Today</i> , 2018 , 13, 1-146.6		29
95	SERS efficiencies of micrometric polystyrene beads coated with gold and silver nanoparticles: the effect of nanoparticle size. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 114012	1.7	29

94	Copper heterogeneous nucleation on a palygorskitic clay: an XRD, EXAFS and molecular modeling study. <i>Applied Clay Science</i> , 2004 , 25, 103-110	5.2	29
93	Plasmon Tunability of Gold Nanostars at the Tip Apexes. <i>ACS Omega</i> , 2018 , 3, 17173-17179	3.9	29
92	Smelling, Seeing, Tasting-Old Senses for New Sensing. <i>ACS Nano</i> , 2017 , 11, 5217-5222	16.7	28
91	Robust Au-PEG/PS microbeads as optically stable platforms for SERS. <i>Small</i> , 2009 , 5, 1283-6	11	28
90	Modeling the adsorption and precipitation processes of Cu(II) on humin. <i>Journal of Colloid and Interface Science</i> , 2004 , 277, 55-61	9.3	28
89	Surface-enhanced vibrational microspectroscopy of fulvic acid micelles. <i>Analytical Chemistry</i> , 2004 , 76, 7118-25	7.8	28
88	Surface-enhanced Raman scattering holography. <i>Nature Nanotechnology</i> , 2020 , 15, 1005-1011	28.7	28
87	Synthesis and Optical Properties of Homogeneous Nanoshurikens. <i>ACS Photonics</i> , 2014 , 1, 1237-1244	6.3	27
86	Robust raspberry-like metallo-dielectric nanoclusters of critical sizes as SERS substrates. <i>Nanoscale</i> , 2017 , 9, 5725-5736	7.7	26
85	Continuous-wave multiphoton photoemission from plasmonic nanostars. <i>Communications Physics</i> , 2018 , 1,	5.4	26
84	Au@pNIPAM Colloids as Molecular Traps for Surface-Enhanced, Spectroscopic, Ultra-Sensitive Analysis. <i>Angewandte Chemie</i> , 2009 , 121, 144-149	3.6	26
83	SERS assisted ultra-fast peptidic screening: a new tool for drug discovery. <i>Nanoscale</i> , 2012 , 4, 113-6	7.7	25
82	Direct growth of shape controlled TiO ₂ nanocrystals onto SWCNTs for highly active photocatalytic materials in the visible. <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 91-99	21.8	23
81	Cancer Diagnosis through SERS and Other Related Techniques. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	23
80	Silver-Assisted Synthesis of Gold Nanorods: the Relation between Silver Additive and Iodide Impurities. <i>Small</i> , 2018 , 14, e1703879	11	23
79	Real Time Dual-Channel Multiplex SERS Ultradetection. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 73-9	6.4	23
78	Colloidal bioplasmonics. <i>Nano Today</i> , 2018 , 20, 58-73	17.9	22
77	SERS study of the controllable release of nitric oxide from aromatic nitrosothiols on bimetallic, bifunctional nanoparticles supported on carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 56-9	9.5	22

76	Extraordinarily transparent compact metallic metamaterials. <i>Nature Communications</i> , 2019 , 10, 2118	17.4	21
75	Loading of Exponentially Grown LBL Films with Silver Nanoparticles and Their Application to Generalized SERS Detection. <i>Angewandte Chemie</i> , 2009 , 121, 5430-5433	3.6	21
74	Fabrication of stable bimetallic nanostructures on Nafion membranes for optical applications. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2921		21
73	Silver coated aluminium microrods as highly colloidal stable SERS platforms. <i>Nanoscale</i> , 2011 , 3, 3265-8	7.7	20
72	Microporous Plasmonic Capsules as Stable Molecular Sieves for Direct SERS Quantification of Small Pollutants in Natural Waters. <i>ChemNanoMat</i> , 2019 , 5, 46-50	3.5	19
71	Organized Solid Thin Films of Gold Nanorods with Different Sizes for Surface-Enhanced Raman Scattering Applications. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28095-28100	3.8	19
70	Fabrication and SERS properties of complex and organized nanoparticle plasmonic clusters stable in solution. <i>Nanoscale</i> , 2020 , 12, 14948-14956	7.7	18
69	Plasmonic Nanoprobes for Real-Time Optical Monitoring of Nitric Oxide inside Living Cells. <i>Angewandte Chemie</i> , 2013 , 125, 13939-13943	3.6	18
68	Free-standing carbon nanotube films as optical accumulators for multiplex SERRS attomolar detection. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 19-22	9.5	18
67	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021 , 15, 3754-3807	16.7	18
66	SERS Platforms of Plasmonic Hydrophobic Surfaces for Analyte Concentration: Hierarchically Assembled Gold Nanorods on Anodized Aluminum. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1134-1140	3.1	17
65	Optofluidic device for the quantification of circulating tumor cells in breast cancer. <i>Scientific Reports</i> , 2017 , 7, 3677	4.9	16
64	Retention and induced aggregation of Co(II) on a humic substance: sorption isotherms, infrared absorption, and molecular modeling. <i>Surface Science</i> , 2005 , 575, 136-146	1.8	16
63	Surface-Enhanced Raman Scattering (SERS) Spectroscopy for Sensing and Characterization of Exosomes in Cancer Diagnosis. <i>Cancers</i> , 2021 , 13,	6.6	16
62	Multiplex SERS Chemosensing of Metal Ions via DNA-Mediated Recognition. <i>Analytical Chemistry</i> , 2019 , 91, 11778-11784	7.8	15
61	Silicon particles as trojan horses for potential cancer therapy. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 35	9.4	15
60	Fabrication and optical enhancing properties of discrete supercrystals. <i>Nanoscale</i> , 2016 , 8, 12702-9	7.7	14
59	The effect of the silica thickness on the enhanced emission in single particle quantum dots coated with gold nanoparticles. <i>RSC Advances</i> , 2013 , 3, 10691	3.7	14

58	Spontaneous and stimulated electron-photon interactions in nanoscale plasmonic near fields. <i>Light: Science and Applications</i> , 2021 , 10, 82	16.7	14
57	The Structure of Short and Genomic DNA at the Interparticle Junctions of Cationic Nanoparticles. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700724	4.6	13
56	Ultrasensitive Direct Quantification of Nucleobase Modifications in DNA by Surface-Enhanced Raman Scattering: The Case of Cytosine. <i>Angewandte Chemie</i> , 2015 , 127, 13854-13858	3.6	13
55	Nachweis kleiner anorganischer Moleküle durch oberflächenverstärkte Raman-Streuung (SERS). <i>Angewandte Chemie</i> , 2012 , 124, 11376-11385	3.6	13
54	SERS classification of highly related performance enhancers. <i>ChemMedChem</i> , 2007 , 2, 1165-7	3.7	13
53	Colloidal synthesis of silicon nanoparticles in molten salts. <i>Nanoscale</i> , 2017 , 9, 8157-8163	7.7	12
52	Organized Plasmonic Clusters with High Coordination Number and Extraordinary Enhancement in Surface-Enhanced Raman Scattering (SERS). <i>Angewandte Chemie</i> , 2012 , 124, 12860-12865	3.6	12
51	Analysis of the SERS spectrum by theoretical methodology: evaluating a classical dipole model and the detuning of the excitation frequency. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 4584-90	2.8	12
50	Macroscale Plasmonic Substrates for Highly Sensitive Surface-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , 2013 , 125, 6587-6591	3.6	12
49	Self-encoded polymer beads for microarray technologies. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 357-359	8.5	12
48	Retention of cobalt on a humin derived from brown coal. <i>Journal of Hazardous Materials</i> , 2006 , 135, 122-128	8.8	12
47	Plasmonic-polymer hybrid hollow microbeads for surface-enhanced Raman scattering (SERS) ultradetection. <i>Journal of Colloid and Interface Science</i> , 2015 , 460, 128-34	9.3	11
46	Synthesis of Sulfur-Containing Aryl and Heteroaryl Vinyls via Suzuki-Miyaura Cross-Coupling for the Preparation of SERS-Active Polymers. <i>Tetrahedron Letters</i> , 2009 , 50, 5467-5469	2	11
45	Multiplex pathogen detection based on spatially addressable microarrays of barcoded resins. <i>Biotechnology Journal</i> , 2008 , 3, 948-53	5.6	11
44	Fabrication of Plasmonic Supercrystals and Their SERS Enhancing Properties. <i>ACS Omega</i> , 2020 , 5, 25485-25492	3.9	11
43	Surface-Enhanced Raman Scattering Sensing of Transition Metal Ions in Waters. <i>ACS Omega</i> , 2021 , 6, 1054-1063	3.9	10
42	Aqueous Stable Gold Nanostar/ZIF-8 Nanocomposites for Light-Triggered Release of Active Cargo Inside Living Cells. <i>Angewandte Chemie</i> , 2019 , 131, 7152-7156	3.6	9
41	A computational approach to the synthesis of 1,3,5-thiadiazinane-2-thiones in aqueous medium: theoretical evidence for water-promoted heterocyclization. <i>Journal of Molecular Modeling</i> , 2008 , 14, 641-7	2	8

40	The Role of Nanoscience in Cancer Diagnosis 2018 , 177-197		6
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