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## Present and Future of Surface-Enhanced Raman Scattering

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1553	Towards Reliable and Quantitative Surface-Enhanced Raman Scattering (SERS): From Key Parameters to Good Analytical Practice. <b>2020</b> , 59, 5454-5462		159
1552	Addressing the plasmonic hotspot region by site-specific functionalization of nanostructures. <b>2020</b> , 2, 394-400		9
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1549	Effect of Annealing on the Microstructure and SERS Performance of Mo-48.2% Ag Films. <b>2020</b> , 13,		2
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1547	Portable and multiplexed lateral flow immunoassay reader based on SERS for highly sensitive point-of-care testing. <b>2020</b> , 168, 112524		28
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1545	A blueprint for performing SERS measurements in tissue with plasmonic nanofibers. <b>2020</b> , 153, 124702		2
1544	Surface-enhanced Raman scattering holography. <b>2020</b> , 15, 1005-1011		28
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1542	Microstructure and molecular vibration of mannosylerythritol lipids from <i>Pseudozyma</i> yeast strains. <b>2020</b> , 232, 104969	2
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1539	Gold semicontinuous thin-film-coated mesoporous TiO <sub>2</sub> for SERS substrates. <b>2020</b> , 2, 1	2
1538	Analysis of extracellular vesicles as emerging theranostic nanoplatforms. <b>2020</b> , 424, 213506	10
1537	From SERS to TERS and Beyond: Molecules as Probes of Nanoscopic Optical Fields. <b>2020</b> , 124, 27267-27275	18
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1534	Uniform Periodic Bowtie SERS Substrate with Narrow Nanogaps Obtained by Monitored Pulsed Electrodeposition. <b>2020</b> , 12, 36505-36512	21
1533	Accurate Monitoring Platform for the Surface Catalysis of Nanozyme Validated by Surface-Enhanced Raman-Kinetics Model. <b>2020</b> , 92, 11763-11770	17
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1531	Chemical identification through two-dimensional electron energy-loss spectroscopy. <b>2020</b> , 6, eabb4713	1
1530	Sensitive and reproducible surface-enhanced raman spectroscopy (SERS) with arrays of dimer-nanopillars. <b>2020</b> , 322, 128563	16
1529	Plasmonics under Attack: Protecting Copper Nanostructures from Harsh Environments. <b>2020</b> , 32, 6788-6799	7
1528	High-Speed Fluctuations in Surface-Enhanced Raman Scattering Intensities from Various Nanostructures. <b>2020</b> , 74, 1398-1406	3
1527	UV Irradiation-Induced SERS Enhancement in Randomly Distributed Au Nanostructures. <b>2020</b> , 20,	1
1526	Fabrication-friendly polarization-sensitive plasmonic grating for optimal surface-enhanced Raman spectroscopy. <b>2020</b> , 16,	0
1525	Clustered Regularly Interspaced Short Palindromic Repeats-Mediated Surface-Enhanced Raman Scattering Assay for Multidrug-Resistant Bacteria. <i>ACS Nano</i> , <b>2020</b> ,	16.7 30

1524	Growth of AuNPs on Glass Nanofibers for SERS Sensors. <b>2020</b> , 12, 55349-55361	6
1523	An Integrated Electrochemistry Approach to the Design and Synthesis of Polyhedral Noble Metal Nanoparticles. <b>2020</b> , 142, 21322-21335	9
1522	Plasmon-driven protodeboronation reactions in nanogaps. <b>2020</b> , 12, 24062-24069	5
1521	Plasmonic Assemblies for Real-Time Single-Molecule Biosensing. <b>2020</b> , 16, e2003934	14
1520	Surface Plasmon Localization-Based Super-resolved Raman Microscopy. <b>2020</b> , 20, 8951-8958	6
1519	Extracellular Vesicle Identification Using Label-Free Surface-Enhanced Raman Spectroscopy: Detection and Signal Analysis Strategies. <b>2020</b> , 25,	10
1518	Towards a traceable enhancement factor in surface-enhanced Raman spectroscopy. <b>2020</b> , 8, 16513-16519	2
1517	Sensing of Hydrogen Sulfide Gas in the Raman-Silent Region Based on Gold Nano-Bipyramids (Au NBPs) Encapsulated by Zeolitic Imidazolate Framework-8. <b>2020</b> , 5, 3964-3970	8
1516	Chitosan Loses Innate Beneficial Properties after Being Dissolved in Acetic Acid: Supported by Detailed Molecular Modeling. <b>2020</b> , 8, 18083-18093	8
1515	Surface Enhanced Raman Scattering Revealed by Interfacial Charge-Transfer Transitions. <b>2020</b> , 1, 100051	35
1514	ZrO <sub>2</sub> @[email protected] <sub>2</sub> Sandwich Structure with High SERS Enhancement Effect and Stability. <b>2020</b> , 124, 25967-25974	8
1513	Gold Nanostars in Biology and Medicine: Understanding Physicochemical Properties to Broaden Applicability. <b>2020</b> , 124, 26540-26553	13
1512	Three-Dimensional Gold Nanosphere Hexamers Linked with Metal Bridges: Near-Field Focusing for Single Particle Surface Enhanced Raman Scattering. <b>2020</b> , 142, 15412-15419	13
1511	Gold Nanoprisms: Synthetic Approaches for Mastering Plasmonic Properties and Implications for Biomedical Applications. <b>2020</b> , 3, 8304-8318	9
1510	Structural order in plasmonic superlattices. <b>2020</b> , 11, 3821	21
1509	Synthesis of Gold Nanoparticle Stabilized on Silicon Nanocrystal Containing Polymer Microspheres as Effective Surface-Enhanced Raman Scattering (SERS) Substrates. <b>2020</b> , 10,	4
1508	Versatile Yolk-Shell Encapsulation: Catalytic, Photothermal, and Sensing Demonstration. <b>2020</b> , 16, e2002311	10
1507	Active Plasmonics and Active Chiral Plasmonics through Orientation-Dependent Multipolar Interactions. <i>ACS Nano</i> , <b>2020</b> , 14, 11518-11532	16.7 7

1506	NanoPADs and nanoFACES: an optically transparent nanopaper-based device for biomedical applications. <b>2020</b> , 20, 3322-3333	13
1505	Rapid Photoligation of Gold Nanocolloids with Lipoic Acid-Based Ligands. <b>2020</b> , 32, 7469-7483	11
1504	Electron- and light-induced stimulated Raman spectroscopy for nanoscale molecular mapping. <b>2020</b> , 102,	1
1503	Comparison of 4-Mercaptobenzoic Acid Surface-Enhanced Raman Spectroscopy-Based Methods for pH Determination in Cells. <b>2020</b> , 74, 1423-1432	6
1502	Three-Dimensional Interconnected Network of Gold Nanostructures for Molecular Sensing via Surface-Enhanced Raman Scattering Spectroscopy. <b>2020</b> , 3, 7950-7962	6
1501	The Raman Spectrum of a Single Molecule on an Electrochemically Etched Silver Tip. <b>2020</b> , 74, 1414-1422	2
1500	Nano-structured plasmonic pore arrays: a robust, low cost route to reproducible hierarchical structures extended across macroscopic dimensions. <b>2020</b> , 2, 4740-4756	2
1499	Targeted Theranostic Nano Vehicle Endorsed with Self-Destruction and Immunostimulatory Features to Circumvent Drug Resistance and Wipe-Out Tumor Reinitiating Cancer Stem Cells. <b>2020</b> , 16, e2003309	22
1498	Plasmonic Electronic Raman Scattering as Internal Standard for Spatial and Temporal Calibration in Quantitative Surface-Enhanced Raman Spectroscopy. <b>2020</b> , 11, 9543-9551	16
1497	Pd nanoparticles as a plasmonic material: synthesis, optical properties and applications. <b>2020</b> , 12, 23424-23443	18
1496	Detection of Bacterial and Viral Pathogens Using Photonic Point-of-Care Devices. <b>2020</b> , 10,	9
1495	Vibrational Spectroscopy for Identification of Metabolites in Biologic Samples. <b>2020</b> , 25,	12
1494	Optically and electrically driven nanoantennas. <b>2020</b> , 11, 1542-1545	1
1493	Shape Control of Thermoplasmonic Gold Nanostars on Oxide Substrates for Hyperthermia-Mediated Cell Detachment. <b>2020</b> , 6, 2105-2116	7
1492	Large-Scale Sub-1-nm Random Gaps Approaching the Quantum Upper Limit for Quantitative Chemical Sensing. <b>2020</b> , 8, 2001634	1
1491	Determination of nicotinamide in a multivitamin complex by electrochemical-surface enhanced Raman spectroscopy. <b>2020</b> , 879, 114743	4
1490	Laser spectroscopic technique for direct identification of a single virus I: FASTER CARS. <b>2020</b> , 117, 27820-27824	14
1489	Shining Light on Aluminum Nanoparticle Synthesis. <b>2020</b> , 53, 2020-2030	12

1488	SERS Spectra of the Pesticide Chlorpyrifos Adsorbed on Silver Nanosurface: The Ag <sub>20</sub> Cluster Model. <b>2020</b> , 124, 21702-21716	14
1487	Monitoring Chemical Reactions with SERS-Active Ag-Loaded Mesoporous TiO Films. <b>2020</b> , 92, 13656-13660	5
1486	Cyclodextrin-Based Synthesis and Host-Guest Chemistry of Plasmonic Nanogap Particles with Strong, Quantitative, and Highly Multiplexable Surface-Enhanced Raman Scattering Signals. <b>2020</b> , 11, 8358-8364	10
1485	Surface-Enhanced Raman Scattering Microspectroscopy Enables the Direct Characterization of Biomineral-Associated Organic Material on Single Calcareous Microskeletons. <b>2020</b> , 11, 8623-8629	0
1484	From single cells to complex tissues in applications of surface-enhanced Raman scattering. <b>2020</b> , 145, 7162-7185	14
1483	Optimization of electromagnetic hot spots in surface-enhanced Raman scattering substrates for an ultrasensitive drug assay of emergency department patients' plasma. <b>2020</b> , 145, 7662-7672	5
1482	Hybrid Nanoplasmonic Porous Biomaterial Scaffold for Liquid Biopsy Diagnostics Using Extracellular Vesicles. <b>2020</b> , 5, 2820-2833	19
1481	Surface-enhanced Raman spectroscopy for chemical and biological sensing using nanoplasmonics: The relevance of interparticle spacing and surface morphology. <b>2020</b> , 7, 031307	32
1480	Molybdenum Trioxide Nanocubes Aligned on a Graphene Oxide Substrate for the Detection of Norovirus by Surface-Enhanced Raman Scattering. <b>2020</b> , 12, 43522-43534	20
1479	Metal Nanoparticles-Enhanced Biosensors: Synthesis, Design and Applications in Fluorescence Enhancement and Surface-enhanced Raman Scattering. <b>2020</b> , 15, 3180-3208	37
1478	Porphyrin-conjugated silver-coated gold nanostars for ultrasensitive detection and multiplexing. <b>2020</b> , 51, 2161-2170	1
1477	Unveiling Anomalous Surface-Enhanced Resonance Raman Scattering on an Oxovanadylruthenium Acetate Cluster Complex by a Theoretical/Experimental Approach. <b>2020</b> , 124, 21674-21683	0
1476	Integrating Plasmonic Supercrystals in Microfluidics for Ultrasensitive, Label-Free, and Selective Surface-Enhanced Raman Spectroscopy Detection. <b>2020</b> , 12, 46557-46564	13
1475	Wave-vector analysis of plasmon-assisted distributed nonlinear photoluminescence along Au nanowires. <b>2020</b> , 102,	2
1474	3D-Printed Biocompatible Scaffolds with Built-In Nanoplasmonic Sensors. <b>2020</b> , 30, 2005407	10
1473	Gold-Deposited Nickel Foam as Recyclable Plasmonic Sensor for Therapeutic Drug Monitoring in Blood by Surface-Enhanced Raman Spectroscopy. <b>2020</b> , 10,	8
1472	Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS). <b>2020</b> , 20, 7655-7661	24
1471	Direct Detection of Ultraweak CO Signal with Cavity Plasmon by Resonant Vibration/Plasmon Coupling. <b>2020</b> , 3, 2000146	1

1470	Unsupported liquid-state platform for SERS-based determination of triazophos. <b>2020</b> , 187, 502	6
1469	Plasmon-Enhanced Surface-Enhanced Raman Scattering Mapping Concentrated on a Single Bead for Ultrasensitive and Multiplexed Immunoassay. <b>2020</b> , 92, 12387-12393	9
1468	Biosensing based on surface-enhanced Raman spectroscopy as an emerging/next-generation point-of-care approach for acute myocardial infarction diagnosis. <b>2020</b> , 40, 1191-1209	5
1467	Single-cell analysis by use of ICP-MS. <b>2020</b> , 35, 1784-1813	22
1466	SERS activity and spectroscopic properties of Zn and ZnO nanostructures obtained by electrochemical and green chemistry methods for applications in biology and medicine. <b>2020</b> , 22, 28100-28114 <sup>8</sup>	8
1465	Fine-tuning of localized surface plasmon resonance of metal nanostructures from near-Infrared to blue prepared by nanosphere lithography. <b>2020</b> , 128, 233104	6
1464	Flexible Hybrid Sensor Systems with Feedback Functions. <b>2020</b> , 31, 2007436	28
1463	Quantifying the enhancement mechanisms of surface-enhanced Raman scattering using a Raman bond model. <b>2020</b> , 153, 224704	4
1462	Tunable rainbow light trapping in ultrathin resonator arrays. <b>2020</b> , 9, 194	5
1461	Reusable Surface-Enhanced Raman Spectroscopy Membranes and Textiles via Template-Assisted Self-Assembly and Micro/Nanoimprinting. <b>2020</b> , 12, 56290-56299	14
1460	Biomacromolecular-Assembled Nanoclusters: Key Aspects for Robust Colloidal SERS Sensing. <b>2020</b> , 12, 57302-57313	17
1459	The Effect of Surface Modification of Gold Nanotriangles for Surface-Enhanced Raman Scattering Performance. <b>2020</b> , 10,	7
1458	Molecular hot spots in surface-enhanced Raman scattering. <b>2020</b> , 12, 22036-22041	10
1457	Synthesis and Single-Particle Surface-Enhanced Raman Scattering Study of Plasmonic Tripod Nanoframes with Y-Shaped Hot-Zones. <b>2020</b> , 20, 4362-4369	22
1456	Sensing Biomarkers with Plasmonics. <b>2020</b> , 92, 7373-7381	20
1455	Homochiral metal-organic frameworks functionalized SERS substrate for atto-molar enantio-selective detection. <b>2020</b> , 20, 100666	6
1454	Efficient Generation of Two-Photon Excited Phosphorescence from Molecules in Plasmonic Nanocavities. <b>2020</b> , 20, 4653-4658	12
1453	The Expanding Frontiers of Tip-Enhanced Raman Spectroscopy. <b>2020</b> , 74, 1313-1340	12

- 1452 Block Copolymer Derived Vertically Coupled Plasmonic Arrays for Surface-Enhanced Raman Spectroscopy. **2020**, 12, 23410-23416 13
- 1451 Fine-Tuning the Homometallic Interface of Au-on-Au Nanorods and Their Photothermal Therapy in the NIR-II Window. **2020**, 59, 14443-14448 48
- 1450 Super-resolution Surface-Enhanced Raman Scattering Imaging of Single Particles in Cells. **2020**, 92, 9389-9398 14
- 1449 Fine-Tuning the Homometallic Interface of Au-on-Au Nanorods and Their Photothermal Therapy in the NIR-II Window. **2020**, 132, 14551-14556 14
- 1448 Programmable Modular Assembly of Functional Proteins on Raman-Encoded Zeolitic Imidazolate Framework-8 (ZIF-8) Nanoparticles as SERS Tags. **2020**, 32, 5739-5749 17
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- 1446 Single plasmonic nanostructures for biomedical diagnosis. **2020**, 8, 6197-6216 4
- 1445 Detection of Aflatoxin B Based on a Porous Anodized Aluminum Membrane Combined with Surface-Enhanced Raman Scattering Spectroscopy. **2020**, 10, 9
- 1444 CaF: An Ideal Substrate Material for Infrared Spectroscopy?. **2020**, 92, 9024-9031 15
- 1443 Hotspots on the Move: Active Molecular Enrichment by Hierarchically Structured Micromotors for Ultrasensitive SERS Sensing. **2020**, 12, 28783-28791 20
- 1442 Colloidal Superstructures with Triangular Cores: Size Effects on SERS Efficiency. **2020**, 7, 1839-1848 17
- 1441 Ultrasensitive inkjet-printed based SERS sensor combining a high-performance gold nanosphere ink and hydrophobic paper. **2020**, 320, 128412 16
- 1440 Plasmonic Cellulose Nanofibers as Water-Dispersible Surface-Enhanced Raman Scattering Substrates. **2020**, 3, 6584-6597 6
- 1439 Au<sub>0.5</sub>Ag<sub>0.5</sub> Alloy Nanolayer Deposited on Pyramidal Si Arrays as Substrates for Surface-Enhanced Raman Spectroscopy. **2020**, 3, 7088-7095 8
- 1438 Silver Double Nanorings with Circular Hot Zone. **2020**, 142, 12341-12348 14
- 1437 Mesoporous Silica-Capped Silver Nanoparticles for Sieving and Surface-Enhanced Raman Scattering-Based Sensing. **2020**, 3, 6376-6384 13
- 1436 Gold nanonails for surface-enhanced infrared absorption. **2020**, 5, 1200-1212 12
- 1435 Roughened silver microtubes for reproducible and quantitative SERS using a template-assisted electrosynthesis approach. **2020**, 20, 100710 5



1434	Chemical selectivity in electrochemical surface oxidation enhanced Raman scattering. <b>2020</b> , 353, 136560	4
1433	Chemical Funneling of Colloidal Gold Nanoparticles on Printed Arrays of End-Grafted Polymers for Plasmonic Applications. <i>ACS Nano</i> , <b>2020</b> , 14, 8276-8286	16.7 17
1432	Profiling DNA mutation patterns by SERS fingerprinting for supervised cancer classification. <b>2020</b> , 165, 112392	20
1431	Reproducibility in Nanocrystal Synthesis? Watch Out for Impurities!. <i>ACS Nano</i> , <b>2020</b> , 14, 6359-6361	16.7 33
1430	Tunable plasmonics of hollow raspberry-like nanogold for the robust Raman scattering detection of antibiotics on a portable Raman spectrometer. <b>2020</b> , 145, 5854-5860	7
1429	Nanoparticle-based biosensors for detection of extracellular vesicles in liquid biopsies. <b>2020</b> , 8, 6710-6738	15
1428	Applying a Nanoparticle@MOF Interface To Activate an Unconventional Regioselectivity of an Inert Reaction at Ambient Conditions. <b>2020</b> , 142, 11521-11527	12
1427	Fractal Shaped Periodic Metal Nanostructures Atop Dielectric-Metal Substrates for SERS Applications. <b>2020</b> , 7, 1708-1715	9
1426	Surface-Enhanced Raman Spectroscopy for Cancer Immunotherapy Applications: Opportunities, Challenges, and Current Progress in Nanomaterial Strategies. <b>2020</b> , 10,	13
1425	Shielded Silver Nanorods for Bioapplications. <b>2020</b> , 32, 5879-5889	13
1424	Applications of Raman spectroscopy in two-dimensional materials. <b>2020</b> , 13, 2030010	3
1423	Plasmonic biosensors relying on biomolecular conformational changes: Case of odorant binding proteins. <b>2020</b> , 642, 469-493	2
1422	Branched Au Nanoparticles on Nanofibers for Surface-Enhanced Raman Scattering Sensing of Intracellular pH and Extracellular pH Gradients. <b>2020</b> , 5, 2155-2167	23
1421	Recent Progress in Surface-Enhanced Raman Scattering for the Detection of Chemical Contaminants in Water. <b>2020</b> , 8, 478	25
1420	Capture of Phenylalanine and Phenylalanine-Terminated Peptides Using a Supramolecular Macrocycle for Surface-Enhanced Raman Scattering Detection. <b>2020</b> , 74, 1374-1383	0
1419	Latest Novelties on Plasmonic and Non-Plasmonic Nanomaterials for SERS Sensing. <b>2020</b> , 10,	26
1418	The evolution of total internal reflection Raman spectroscopy for the chemical characterization of thin films and interfaces. <b>2020</b> , 412, 6009-6022	3
1417	Selective, Quantitative, and Multiplexed Surface-Enhanced Raman Spectroscopy Using Aptamer-Functionalized Monolithic Plasmonic Nanogrids Derived from Cross-Point Nano-Welding. <b>2020</b> , 30, 2000612	12

1416	Attomolar SERS detection of organophosphorous pesticides using silver mirror-like micro-pyramids as active substrate. <b>2020</b> , 187, 247	11
1415	Multiplex SERS Detection of Metabolic Alterations in Tumor Extracellular Media. <b>2020</b> , 30, 1910335	32
1414	Novel Assessment of Urinary Albumin Excretion in Type 2 Diabetes Patients by Raman Spectroscopy. <b>2020</b> , 10,	9
1413	6-Color/1-Target Immuno-SERS Microscopy on the Same Single Cancer Cell. <b>2020</b> , 12, 32321-32327	6
1412	Surface-enhanced Raman spectroscopy based on Silver nano-dendrites on microsphere end-shape optical fibre for pesticide residue detection. <b>2020</b> , 219, 165172	4
1411	Shell-isolated nanoparticle-enhanced Raman spectroscopy for characterization of living yeast cells. <b>2020</b> , 240, 118560	9
1410	The surface-enhanced resonance Raman scattering of dye molecules adsorbed on two-dimensional titanium carbide Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (MXene) film. <b>2020</b> , 1, 146-152	14
1409	Mechanistic Insights into Photocatalyzed H Dissociation on Au Clusters. <b>2020</b> , 142, 13090-13101	27
1408	Fabrication and SERS properties of complex and organized nanoparticle plasmonic clusters stable in solution. <b>2020</b> , 12, 14948-14956	18
1407	Toward rapid infectious disease diagnosis with advances in surface-enhanced Raman spectroscopy. <b>2020</b> , 152, 240902	23
1406	Recent Progress and Prospects in Plasmon-Mediated Chemical Reaction. <b>2020</b> , 3, 42-56	26
1405	Bicontinuous microemulsion as confined reaction media for the synthesis of plasmonic silver self-assembled hierarchical superstructures. <b>2020</b> , 31, 425601	3
1404	Quantitative optical microspectroscopy, electron microscopy, and modelling of individual silver nanocubes reveal surface compositional changes at the nanoscale. <b>2020</b> , 2, 2485-2496	1
1403	4-Aminothiophenol capped halloysite nanotubes/silver nanoparticles as surface-enhanced Raman scattering probe for in-situ derivatization and selective determination of nitrite ions in meat product. <b>2020</b> , 220, 121366	14
1402	Microwave-assisted functionalization of carbon nanohorns with oligothiophene units with SERS activity. <b>2020</b> , 56, 8948-8951	1
1401	A gas-phase synthesis of Ag-centered phenylenediamine clusters. <b>2020</b> , 8, 10325-10332	3
1400	Probing Subtle Changes in Molecular Orientations Using Ambient Electrospray Deposition Raman Spectroscopy (AESD RS). <b>2020</b> , 124, 16644-16651	3
1399	SERS-based immunoassay for monitoring cortisol-related disorders. <b>2020</b> , 165, 112418	13

1398	Tip-enhanced Raman spectroscopy: Chemical analysis with nanoscale to angstrom scale resolution. <b>2020</b> , 153, 010902	31
1397	Anti-crossing property of strong coupling system of silver nanoparticle dimers coated with thin dye molecular films analyzed by electromagnetism. <b>2020</b> , 152, 054710	3
1396	Modified plasmonic response of dimer nanoantennas with nonlocal effects: From near-field enhancement to optical force. <b>2020</b> , 245, 106878	5
1395	In Situ Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy of Nickel-Catalyzed Hydrogenation Reactions. <b>2020</b> , 21, 625-632	11
1394	Simulation guided design of silver nanostructures for plasmon-enhanced fluorescence, singlet oxygen generation and SERS applications. <b>2020</b> , 22, 5673-5687	38
1393	Detection of Chlortetracycline Hydrochloride in Milk with a Solid SERS Substrate Based on Self-assembled Gold Nanobipyramids. <b>2020</b> , 36, 935-940	5
1392	Virtual Issue in Honor of Prof. Richard Van Duyne (1945-2019). <b>2020</b> , 92, 4165-4166	
1391	The chemical effect goes resonant - a full quantum mechanical approach on TERS. <b>2020</b> , 12, 6346-6359	15
1390	Silver-chitosan nanocomposite as a plasmonic platform for SERS sensing of polyaromatic sulfur heterocycles in oil fuel. <b>2020</b> , 31, 225503	11
1389	Tuning the Surface Chemistry of Gold Nanoparticles to Specifically Image Glioblastoma Cells Using Surface-Enhanced Raman Spectroscopy. <b>2020</b> , 3, 2447-2454	2
1388	Endosomal Confinement of Gold Nanospheres, Nanorods, and Nanoraspberries Governs Their Photothermal Identity and Is Beneficial for Cancer Cell Therapy. <b>2020</b> , 4, e1900284	8
1387	A highly sensitive SERS quenching nanosensor for the determination of tumor necrosis factor alpha in blood. <b>2020</b> , 310, 127867	19
1386	Surface-Enhanced Hyper Raman Spectra of Aromatic Thiols on Gold and Silver Nanoparticles. <b>2020</b> , 124, 6233-6241	15
1385	Announcing the 2020 Award Lecture Laureates. <i>ACS Nano</i> , <b>2020</b> , 14, 1213-1215	16.7 0
1384	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. <b>2020</b> , 92, 4053-4064	25
1383	Multiplex Surface-Enhanced Raman Scattering Identification and Quantification of Urine Metabolites in Patient Samples within 30 min. <i>ACS Nano</i> , <b>2020</b> , 14, 2542-2552	16.7 44
1382	Gold nanostars as a colloidal substrate for in-solution SERS measurements using a handheld Raman spectrometer. <b>2020</b> , 145, 1396-1407	16
1381	Accounting for the Local Field When Determining the Dielectric Loss Spectra of Metals in the Region of the Frequencies of Volume, Surface and Localized Plasmon Oscillations. <b>2020</b> , 13,	1

1380	Fundamental understanding and applications of plasmon-enhanced Raman spectroscopy. <b>2020</b> , 2, 253-271	128
1379	Directing Arrowhead Nanorod Dimers for MicroRNA In Situ Raman Detection in Living Cells. <b>2020</b> , 30, 2001451	18
1378	Integrating SERS and PSI-MS with Dual Purpose Plasmonic Paper Substrates for On-Site Illicit Drug Confirmation. <b>2020</b> , 92, 6676-6683	23
1377	Plasmonic Coupling of AgNPs near Graphene Edges: A Cross-Section Strategy for High-Performance SERS Sensing. <b>2020</b> , 32, 3813-3822	8
1376	Sculpting Artificial Edges in Monolayer MoS for Controlled Formation of Surface-Enhanced Raman Hotspots. <i>ACS Nano</i> , <b>2020</b> , 14, 6258-6268	16.7 17
1375	Spatial Metabolomics and Imaging Mass Spectrometry in the Age of Artificial Intelligence. <b>2020</b> , 3, 61-87	49
1374	Polymeric micro-reactors mediated synthesis and assembly of Ag nanoparticles into cube-like superparticles for SERS application. <b>2020</b> , 395, 125123	40
1373	Surface Enhanced Raman Scattering Selectivity in Proteins Arises from Electron Capture and Resonant Enhancement of Radical Species. <b>2020</b> , 124, 9548-9558	6
1372	Nanoscale Sensors in Catalysis: All Eyes on Catalyst Particles. <i>ACS Nano</i> , <b>2020</b> , 14, 3725-3735	16.7 36
1371	New development of nanoscale spectroscopy using scanning probe microscope. <b>2020</b> , 38, 030801	7
1370	Rapid nondestructive detection of mixed pesticides residues on fruit surface using SERS combined with self-modeling mixture analysis method. <b>2020</b> , 217, 120998	76
1369	Recent Advances in Plasmonic Nanostructures for Enhanced Photocatalysis and Electrocatalysis. <b>2021</b> , 33, e2000086	112
1368	Wafer-scale SERS metallic nanotube arrays with highly ordered periodicity. <b>2021</b> , 329, 129132	8
1367	Facile fabrication of integrated microfluidic SERS substrate by femtosecond laser sintering of silver nano particles. <b>2021</b> , 111, 110518	6
1366	Recent advances in plasmonic nanocavities for single-molecule spectroscopy. <b>2021</b> , 3, 633-642	22
1365	Dynamics of deterministically positioned single-bond surface-enhanced Raman scattering from DNA origami assembled in plasmonic nanogaps. <b>2021</b> , 52, 348-354	3
1364	SERS-active linear barcodes by microfluidic-assisted patterning. <b>2021</b> , 584, 11-18	14
1363	Flexible synthesis of high-purity plasmonic assemblies. <b>2021</b> , 14, 635-645	4

1362	Attenuated total reflection-cascading nanostructure-enhanced Raman spectroscopy on flat surfaces: A nano-optical design. <b>2021</b> , 52, 446-457	1
1361	Superhydrophobic needles tipped with 2-dimensional arrays of plasmonic colloidal nanoparticles for microdroplet SERS analysis. <b>2021</b> , 52, 386-393	3
1360	Polymer multilayers enabled stable and flexible Au@Ag nanoparticle array for nondestructive SERS detection of pesticide residues. <b>2021</b> , 223, 121782	42
1359	Strategies to improve performances of LSPR biosensing: Structure, materials, and interface modification. <b>2021</b> , 174, 112850	28
1358	Recent progress in the detection of emerging contaminants PFASs. <b>2021</b> , 408, 124437	20
1357	Optimizing noncontact oxygen-plasma treatment to improve the performance of a top-down nanofabricated surface enhanced Raman spectroscopy substrate with structurally responsive, high-aspect-ratio nanopillar array. <b>2021</b> , 52, 608-615	3
1356	TiO <sub>2</sub> nanorod arrays decorated with Au nanoparticles as sensitive and recyclable SERS substrates. <b>2021</b> , 861, 157999	13
1355	Experimental tests of surface-enhanced Raman scattering: Moving beyond the electromagnetic enhancement theory. <b>2021</b> , 52, 310-322	5
1354	Facile fabrication of three-dimensional gold nanodendrites decorated by silver nanoparticles as hybrid SERS-active substrate for the detection of food contaminants. <b>2021</b> , 122, 107772	14
1353	Single-Particle Analysis on Plasmonic Nanogap Systems for Quantitative SERS. <b>2021</b> , 52, 375-385	10
1352	SERSTEM: An app for the statistical analysis of correlative SERS and TEM imaging and evaluation of SERS tags performance. <b>2021</b> , 52, 355-365	1
1351	Towards translation of surface-enhanced Raman spectroscopy (SERS) to clinical practice: Progress and trends. <b>2021</b> , 134, 116122	15
1350	Silver-Coated Disordered Silicon Nanowires Provide Highly Sensitive Label-Free Glycated Albumin Detection through Molecular Trapping and Plasmonic Hotspot Formation. <b>2021</b> , 10, e2001110	8
1349	Event chronology analysis of the historical development of tip-enhanced Raman spectroscopy. <b>2021</b> , 52, 587-599	3
1348	Highly reproducible SERS sensor based on self-assembled Au nanocubic monolayer film for sensitive and quantitative detection of glutathione. <b>2021</b> , 540, 148381	16
1347	The current state of the art of plasmonic nanofibrous mats as SERS substrates: design, fabrication and sensor applications. <b>2021</b> , 9, 267-282	4
1346	Nucleic Acids Analysis. <b>2020</b> , 64, 1-33	33
1345	Cyclodextrins and inorganic nanoparticles: Another tale of synergy. <b>2021</b> , 288, 102338	9

1344	Fabrication of Cysteamine capped-CdSe QDs anchored graphene xerogel nanosensor for facile onsite visual detection of TNT. <b>2021</b> , 25, 100643	4
1343	Plasmonic SERS Biosensor Based on Multibranching Gold Nanoparticles Embedded in Polydimethylsiloxane for Quantification of Hematin in Human Erythrocytes. <b>2021</b> , 93, 1025-1032	5
1342	Emerging Plasmonic Assemblies Triggered by DNA for Biomedical Applications. <b>2021</b> , 31, 2005709	7
1341	SERS and the scientific career of Richard P. Van Duyne (1945-2019). <b>2021</b> , 52, 268-278	1
1340	Resolving the Sequence of RNA Strands by Tip-Enhanced Raman Spectroscopy. <b>2021</b> , 8, 424-430	10
1339	Chemical sensing with Au and Ag nanoparticles. <b>2021</b> , 50, 1269-1304	24
1338	Repeated double cross-validation applied to the PCA-LDA classification of SERS spectra: a case study with serum samples from hepatocellular carcinoma patients. <b>2021</b> , 413, 1303-1312	6
1337	A portable SERS reader coupled with catalytic hairpin assembly for sensitive microRNA-21 lateral flow sensing. <b>2021</b> , 146, 848-854	12
1336	Plasmonic nanoplatforms: From surface-enhanced Raman scattering sensing to biomedical applications. <b>2021</b> , 52, 541-553	7
1335	Synthesis of highly ordered AgNPs-coated silica photonic crystal beads for sensitive and reproducible 3D SERS substrates. <b>2021</b> , 32, 150-153	7
1334	Plasmonic foam platforms for air quality monitoring. <b>2021</b> , 13, 1738-1744	2
1333	Combined Visible Plasmons of Ag Nanoparticles and Infrared Plasmons of Graphene Nanoribbons for High-Performance Surface-Enhanced Raman and Infrared Spectroscopies. <b>2021</b> , 17, 2004640	25
1332	Nucleic Acid Hybridization-Based Noise Suppression for Ultrasensitive Multiplexed Amplification of Mutant Variants. <b>2021</b> , 17, e2006370	7
1331	Silver microspheres aggregation-induced Raman enhanced scattering used for rapid detection of carbendazim in Chinese tea. <b>2021</b> , 339, 128085	9
1330	Chelating agents effects in nanoengineered silver structures over TiO <sub>2</sub> nanotubes on Ti wires and their Rhodamine B detection activity. <b>2021</b> , 258, 123887	0
1329	Surface-enhanced Raman Scattering on 2D Nanomaterials: Recent Developments and Applications <b>2021</b> , 39, 745-756	11
1328	Discrete sources method for investigation of near field enhancement of core-shell nanoparticles on a substrate accounting for spatial dispersion. <b>2021</b> , 259, 107405	2
1327	Paper-based surface-enhanced Raman spectroscopy sensors for field applications. <b>2021</b> , 52, 563-572	12

1326	Peroxidase-like recyclable SERS probe for the detection and elimination of cationic dyes in pond water. <b>2021</b> , 408, 124426	15
1325	Directional Control of Light with Nanoantennas. <b>2021</b> , 9, 2001081	15
1324	Self-assembled zeolitic imidazolate framework-8/Ag nanoparticles composite with well-controlled flower-like architectures for ultrasensitive surface-enhanced Raman scattering detection. <b>2021</b> , 537, 147853	10
1323	Photothermal Response of Single Gold Nanoparticles through Hyperspectral Imaging Anti-Stokes Thermometry. <i>ACS Nano</i> , <b>2021</b> , 15, 2458-2467	16.7 20
1322	Interface-Induced Ag Monolayer Film for Surface-Enhanced Raman Scattering Detection of Water-Insoluble Enrofloxacin. <b>2021</b> , 16, 349-358	4
1321	Analytical solutions for the surface- and orientation-averaged SERS enhancement factor of small plasmonic particles. <b>2021</b> , 52, 285-295	4
1320	Dual synergistic modulation of photo-induced electron transfer processes between molecules and gold nanopillars for ultrasensitive plasmon-enhanced Raman scattering. <b>2021</b> , 9, 8842-8848	2
1319	Faster, better, and cheaper: harnessing microfluidics and mass spectrometry for biotechnology. <b>2021</b> , 2, 1331-1351	3
1318	Highly uniform self-assembled monolayers of silver nanospheres for the sensitive and quantitative detection of glutathione by SERS. <b>2021</b> , 50, 10436-10445	5
1317	Application of magnetic nanomaterials in plasmonic sensors. <b>2021</b> , 249-267	1
1316	Harnessing selectivity in chemical sensing supramolecular interactions: from functionalization of nanomaterials to device applications. <b>2021</b> , 8, 2685-2708	6
1315	Controlling silver morphology on a cramped optical fiber facet via a PVP-assisted silver mirror reaction for SERS fiber probe fabrication. <b>2021</b> , 45, 4004-4015	3
1314	The rationality of using coreshell nanoparticles with embedded internal standards for SERS quantitative analysis based glycerol-assisted 3D hotspots platform.. <b>2021</b> , 11, 20326-20334	3
1313	Single-molecule electrochemistry. <b>2021</b> , 253-293	0
1312	SERS characterization of dopamine and dopamine polymerization on silver nanoparticles. <b>2021</b> , 23, 12158-12170	0
1311	Single-molecule surface-enhanced Raman spectroscopy (SM-SERS): characteristics and spectral information. <b>2021</b> , 70, 137401-137401	0
1310	Label-free breast cancer detection using fiber probe-based Raman spectrochemical biomarker-dominated profiles extracted from a mixture analysis algorithm. <b>2021</b> , 13, 3249-3255	3
1309	Silver melamine thin film as a flexible platform for SERS analysis. <b>2021</b> , 13, 7375-7380	2



1308	Analytical Methods for Characterization of Nanomaterial Surfaces. <b>2021</b> , 93, 1889-1911	8
1307	Self-assembly of colloidal nanoparticles into 2D arrays at water-oil interfaces: rational construction of stable SERS substrates with accessible enhancing surfaces and tailored plasmonic response. <b>2021</b> , 13, 5937-5953	16
1306	Rapid ultra-sensitive diagnosis of infection using a SERS-based lateral flow assay. <b>2021</b> , 146, 4495-4505	5
1305	Black Au-Decorated TiO Produced via Laser Ablation in Liquid. <b>2021</b> , 13, 6522-6531	14
1304	Rapid developments in lateral flow immunoassay for nucleic acid detection. <b>2021</b> , 146, 1514-1528	13
1303	Half-raspberry-like bimetallic nanoassembly: Interstitial dependent correlated surface plasmon resonances and surface-enhanced Raman spectroscopy. <b>2021</b> , 23, 23875-23885	2
1302	New advances in using Raman spectroscopy for the characterization of catalysts and catalytic reactions. <b>2021</b> , 50, 3519-3564	42
1301	Designing the Hotspots Distribution by Anisotropic Growth. <b>2021</b> , 26,	0
1300	Label-free analysis of gingival crevicular fluid (GCF) by surface enhanced Raman scattering (SERS). <b>2021</b> , 146, 1464-1471	1
1299	Characterization techniques in energy generation and storage. <b>2021</b> , 259-285	0
1298	Surface Plasmon Resonance Platforms for Chemical and Bio Sensing. <b>2021</b> ,	1
1297	Fabrication of an AAO-based surface-enhanced Raman scattering substrate for the identification of levofloxacin in milk. <b>2021</b> , 45, 7571-7577	4
1296	Plasmon-driven photocatalytic molecular transformations on metallic nanostructure surfaces: mechanistic insights gained from plasmon-enhanced Raman spectroscopy. <b>2021</b> , 6, 250-280	9
1295	Characterization of a library of vitamin A-functionalized polymethacrylate-based nanoparticles for siRNA delivery. <b>2021</b> , 12, 911-925	3
1294	Silver oxide model surface improves computational simulation of surface-enhanced Raman spectroscopy on silver nanoparticles. <b>2021</b> , 23, 15480-15484	1
1293	A target-triggered and self-calibration aptasensor based on SERS for precise detection of a prostate cancer biomarker in human blood. <b>2021</b> , 13, 7574-7582	13
1292	A Programmable DNA-Silicification-Based Nanocavity for Single-Molecule Plasmonic Sensing. <b>2021</b> , 33, e2005133	10
1291	Fabrication of high quality electrochemical SERS (EC-SERS) substrates using physical vapour deposition. <b>2021</b> , 23, 20065-20072	1



1290	Scouting for strong light-matter coupling signatures in Raman spectra. <b>2021</b> , 23, 16837-16846	5
1289	Between plasmonics and surface-enhanced resonant Raman spectroscopy: toward single-molecule strong coupling at a hotspot. <b>2021</b> , 13, 1566-1580	10
1288	Gold-spiked coating of silver particles through cold nanowelding. <b>2021</b> , 13, 4530-4536	2
1287	Plasmons: untangling the classical, experimental, and quantum mechanical definitions. <b>2021</b> ,	3
1286	Surface-Enhanced Raman Scattering Sensing of Transition Metal Ions in Waters. <b>2021</b> , 6, 1054-1063	10
1285	Revealing the effects of molecular orientations on the azo-coupling reaction of nitro compounds driven by surface plasmonic resonances. <b>2021</b> , 23, 21748-21756	
1284	Towards practical and sustainable SERS: a review of recent developments in the construction of multifunctional enhancing substrates. <b>2021</b> , 9, 11517-11552	11
1283	Rational Component and Structure Design of Noble-Metal Composites for Optical and Catalytic Applications. <b>2021</b> , 2, 2000138	12
1282	CHAPTER 13:Proteins Engineer the Size and Morphology of Noble Metal Nanoparticles. <b>2021</b> , 333-354	0
1281	Localized surface plasmon resonance shift and its application in scanning near-field optical microscopy. <b>2021</b> , 9, 6960-6969	3
1280	Rapid and sensitive label-free SERS determination of fucoxanthin in algae using gold nanoparticles. <b>2021</b> , 11, 240	3
1279	Surface enhanced Raman scattering for the multiplexed detection of pathogenic microorganisms: towards point-of-use applications. <b>2021</b> , 146, 6084-6101	7
1278	Detection of Soluble Mercury in Cinnabar Using a CV-Ag NPs SERS Probe. <b>2021</b> , 37, 1407-1412	
1277	Introduction to vibrational spectroscopies. <b>2021</b> , 7, 1	3
1276	CHAPTER 6:Applications of Colloidal Nanocrystals. <b>2021</b> , 209-257	
1275	Designing caps for colloidal Au nanoparticles. <b>2021</b> , 12, 3644-3650	5
1274	Macroscopical monolayer films of ordered arrays of gold nanoparticles as SERS substrates for quantitative detection in aqueous solutions. <b>2021</b> , 13, 14925-14934	3
1273	Investigations of Shape, Material and Excitation Wavelength Effects on Field Enhancement in SERS Advanced Tips. <b>2021</b> , 11,	2

1272	Photo-Induced Charge Transfer Enhancement for SERS in a SiO-Ag-Reduced Graphene Oxide System. <b>2021</b> , 13, 5699-5705	3
1271	Coupled plasmonic systems: controlling the plasmon dynamics and spectral modulations for molecular detection. <b>2021</b> , 13, 5187-5201	3
1270	Ag-ZnO Nanocomposites Are Used for SERS Substrates and Promote the Coupling Reaction of PATP. <b>2021</b> , 14,	2
1269	A digital single-molecule nanopillar SERS platform for predicting and monitoring immune toxicities in immunotherapy. <b>2021</b> , 12, 1087	24
1268	Individual Plasmonic Nanoprobes for Biosensing and Bioimaging: Recent Advances and Perspectives. <b>2021</b> , 17, e2004287	3
1267	Dual-Purpose SERS Sensor for Selective Determination of Polycyclic Aromatic Compounds Electron Donor-Acceptor Traps. <b>2021</b> , 6, 1057-1066	8
1266	Rapid Detection of Glucose on Nanostructured Gold Film Biosensor by Surface-Enhanced Raman Spectroscopy. <b>2021</b> , 11,	3
1265	Methodology for binary detection analysis of inkjet-printed optical sensors for chemical detection. <b>2021</b> , 6, 1-5	2
1264	Exploiting SERS sensitivity to monitor DNA aggregation properties. <b>2021</b> , 170, 88-93	1
1263	Toward the Limitation of Dealloying: Full Spectrum Responsive Ultralow Density Nanoporous Gold for Plasmonic Photocatalytic SERS. <b>2021</b> , 13, 7735-7744	3
1262	Ag-Nanowire Bundles with Gap Hot Spots Synthesized in Track-Etched Membranes as Effective SERS-Substrates. <b>2021</b> , 11, 1375	10
1261	Low Field Gradient and Highly Enhanced Plasmonic Nanocavity Array for Supersensitive Determination of Multiple Hazardous Chemical Residues. <b>2021</b> , 125, 4710-4719	3
1260	Paper-Based Multiplex Surface-Enhanced Raman Scattering Detection Using Polymerase Chain Reaction Probe Codification. <b>2021</b> , 93, 3677-3685	5
1259	Physically Unclonable Surfaces via Dewetting of Polymer Thin Films. <b>2021</b> , 13, 11247-11259	14
1258	Composite Structure Based on Gold-Nanoparticle Layer and HMM for Surface-Enhanced Raman Spectroscopy Analysis. <b>2021</b> , 11,	5
1257	DNA-Engineerable Ultraflat-Faceted Core-Shell Nanocuboids with Strong, Quantitative Plasmon-Enhanced Fluorescence Signals for Sensitive, Reliable MicroRNA Detection. <b>2021</b> , 21, 2132-2140	11
1256	BIO bragg gratings on microfibers for label-free biosensing. <b>2021</b> , 176, 112916	8
1255	Sensitive Interferometric Plasmon Ruler Based on a Single Nanodimer. <b>2021</b> , 125, 6486-6493	5

1254	Plasmon-Coupled Gold Nanoparticles in Stretched Shape-Memory Polymers for Mechanical/Thermal Sensing. <b>2021</b> , 4, 3911-3921		4
1253	Ultrasensitive Characterization of the Prion Protein by Surface-Enhanced Raman Scattering: Selective Enhancement via Electrostatic Tethering of the Intrinsically Disordered Domain with Functionalized Silver Nanoparticles. <b>2021</b> , 12, 3187-3194		3
1252	The origin of ultrasensitive SERS sensing beyond plasmonics. <b>2021</b> , 16, 1		17
1251	Challenges and potential solutions for nanosensors intended for use with foods. <b>2021</b> , 16, 251-265		34
1250	Bimetallic AgNPs@dopamine modified-halloysite nanotubes-AuNPs for adenine determination using surface-enhanced Raman scattering. <b>2021</b> , 188, 127		3
1249	Construction of Boronate-Affinity Magnetic Immunity SERS Sensor and Detection of Alpha-Fetoprotein (AFP) in Human Serum. <b>2021</b> , 94, 860-868		3
1248	Effective Electrochemical Modulation of SERS Intensity Assisted by Core-Shell Nanoparticles. <b>2021</b> , 93, 4441-4448		5
1247	Ultra-High-Speed Dynamics in Surface-Enhanced Raman Scattering. <b>2021</b> , 125, 7523-7532		7
1246	Surface-Enhanced Raman Scattering and Surface-Enhanced Infrared Absorption by Plasmon Polaritons in Three-Dimensional Nanoparticle Supercrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 5523-5533	16.7	23
1245	Thousand-fold Increase in Plasmonic Light Emission via Combined Electronic and Optical Excitations. <b>2021</b> , 21, 2658-2665		4
1244	Detection of DNA bases and environmentally relevant biomolecules and monitoring ssDNA hybridization by noble metal nanoparticles decorated graphene nanosheets as ultrasensitive G-SERS platforms. <b>2021</b> , 52, 930-948		3
1243	Localized Surface Plasmon Enhanced Laser Reduction of Graphene Oxide for Wearable Strain Sensor. <b>2021</b> , 6, 2001191		5
1242	Gold Nanostars Bioconjugation for Selective Targeting and SERS Detection of Biofluids. <b>2021</b> , 11,		3
1241	Fast discrimination of tumor and blood cells by label-free surface-enhanced Raman scattering spectra and deep learning. <b>2021</b> , 129, 123103		4
1240	Dimensional Surface-Enhanced Raman Scattering Nanostructures for MicroRNA Profiling. <b>2021</b> , 2, 2000150		4
1239	Promoted "Click" SERS Detection for Precise Intracellular Imaging of Caspase-3. <b>2021</b> , 93, 4876-4883		12
1238	Large Area Few-Layer Hexagonal Boron Nitride as a Raman Enhancement Material. <b>2021</b> , 11,		3
1237	ZnO nanowire arrays decorated with titanium nitride nanoparticles as surface-enhanced Raman scattering substrates. <b>2021</b> , 127, 1		1

1236	Adsorption Geometry of Alizarin on Silver Nanoparticles: A Computational and Spectroscopic Study. <b>2021</b> , 11,		
1235	Self-assembly 2D Plasmonic Nanorice Film for SERS.		
1234	Raman Enhancement of Nanoparticle Dimers Self-Assembled Using DNA Origami Nanotriangles. <b>2021</b> , 26,		3
1233	Coupling rotating disk electrodes and surface-enhanced Raman spectroscopy for in situ electrochemistry studies. <b>2021</b> , 124, 106928		2
1232	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , <b>2021</b> , 15, 3754-3807	16.7	18
1231	Au/SiO <sub>2</sub> -Nanolaminated Plasmonic Nanoantennas as Refractive-Index-Insensitive and Transparent Surface-Enhanced Raman Spectroscopy Substrates. <b>2021</b> , 4, 3175-3184		6
1230	Selectively steering photon spin angular momentum via electron-induced optical spin Hall effect. <b>2021</b> , 7,		4
1229	Nanoscale nonlinear plasmonics in photonic waveguides and circuits. <b>2021</b> , 44, 193-249		9
1228	Revealing unconventional host-guest complexation at nanostructured interface by surface-enhanced Raman spectroscopy. <b>2021</b> , 10, 85		4
1227	Point-of-care diagnostics for infectious diseases: From methods to devices. <b>2021</b> , 37, 101092		81
1226	Electrochemical Tip-Enhanced Raman Spectroscopy: An In Situ Nanospectroscopy for Electrochemistry. <b>2021</b> , 72, 213-234		6
1225	A silver trimesate organic framework as an ultrasensitive surface-enhanced Raman scattering substrate for detection of various organic pollutants. <b>2021</b> , 163, 105896		5
1224	A Versatile DNA Origami-Based Plasmonic Nanoantenna for Label-Free Single-Molecule Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , <b>2021</b> , 15, 7065-7077	16.7	20
1223	Asymmetric Core-Shell Gold Nanoparticles and Controllable Assemblies for SERS Ratiometric Detection of MicroRNA. <b>2021</b> , 133, 12668-12676		3
1222	Distinct stratification of normal liver, hepatocellular carcinoma (HCC), and anticancer nanomedicine-treated- tumor tissues by Raman fingerprinting for HCC therapeutic monitoring. <b>2021</b> , 33, 102352		1
1221	Boosting Long-Range Surface-Enhanced Raman Scattering on Plasmonic Nanohole Arrays for Ultrasensitive Detection of MiRNA. <b>2021</b> , 13, 18301-18313		8
1220	Portable Raman Spectroscopy: Instrumentation and Technology. <b>2021</b> , 115-145		3
1219	Dual-mode ECL/SERS immunoassay for ultrasensitive determination of <i>Vibrio vulnificus</i> based on multifunctional MXene. <b>2021</b> , 332, 129525		17

1218	Metal-Modified Montmorillonite as Plasmonic Microstructure for Direct Protein Detection. <b>2021</b> , 21,	3
1217	Silver-nanoparticle-grafted silicon nanocones for reproducible Raman detection of trace contaminants in complex liquid environments. <b>2021</b> , 251, 119447	5
1216	Synthesis of Uniform Gold Nanorods with Large Width to Realize Ultralow SERS Detection. <b>2021</b> , 27, 7549-7560	0
1215	Real-Time Intraoperative Surface-Enhanced Raman Spectroscopy-Guided Thermosurgical Eradication of Residual Microtumors in Orthotopic Breast Cancer. <b>2021</b> , 21, 3066-3074	18
1214	Asymmetric Core-Shell Gold Nanoparticles and Controllable Assemblies for SERS Ratiometric Detection of MicroRNA. <b>2021</b> , 60, 12560-12568	19
1213	Permeability of 3D Templates Plays a Considerable Role in Improving the Activity of 3D Composite Surface-Enhanced Raman Scattering Substrates. <b>2021</b> , 125, 8323-8332	1
1212	Relaxation and Excitation Rate Modifications by Metal Nanostructures for Solar Energy Conversion Applications. <b>2021</b> , 125, 8090-8097	1
1211	Intracellular pH - Advantages and pitfalls of surface-enhanced Raman scattering and fluorescence microscopy - A review. <b>2021</b> , 251, 119410	12
1210	Examining the Effect of Dopant Ionic Radius on Plasmonic M:ZnO Nanocrystals (M = Al <sup>3+</sup> , Ga <sup>3+</sup> , In <sup>3+</sup> ). <b>2021</b> , 125, 7772-7779	3
1209	Plasmonic Core-Shell Nanomaterials and their Applications in Spectroscopies. <b>2021</b> , e2005900	11
1208	State-of-the-Art Optical Devices for Biomedical Sensing ApplicationsA Review. <b>2021</b> , 10, 973	10
1207	Disorder-Induced Material-Insensitive Optical Response in Plasmonic Nanostructures: Vibrant Structural Colors from Noble Metals. <b>2021</b> , 33, e2007623	9
1206	Stable and scalable SERS tags conjugated with neutravidin for the detection of fibroblast activation protein (FAP) in primary fibroblasts. <b>2021</b> , 32,	4
1205	Industrial view of plasmonic devices made by nanoimprint or injection molding. <b>2021</b> , 129, 130902	2
1204	Vertically aligned nanostructures for a reliable and ultrasensitive SERS-active platform: Fabrication and engineering strategies. <b>2021</b> , 37, 101063	11
1203	Interfacial interactions of SERS-active noble metal nanostructures with functional ligands for diagnostic analysis of protein cancer markers. <b>2021</b> , 188, 164	3
1202	Detection of Sub-Micro- and Nanoplastic Particles on Gold Nanoparticle-Based Substrates through Surface-Enhanced Raman Scattering (SERS) Spectroscopy. <b>2021</b> , 11,	12
1201	Simultaneous Deep Tracking of Stem Cells by Surface Enhanced Raman Imaging Combined with Single-Cell Tracking by NIR-II Imaging in Myocardial Infarction. <b>2021</b> , 31, 2100468	7

1200	Gold Nanostar Spatial Distribution Impacts the Surface-Enhanced Raman Scattering Detection of Uranyl on Amidoximated Polymers. <b>2021</b> , 37, 4891-4899		1
1199	Imaging Plasmons with Sub-2 nm Spatial Resolution via Tip-Enhanced Four-Wave Mixing. <b>2021</b> , 12, 3535-3539		5
1198	Hydrated Ionic Liquids Boost the Trace Detection Capacity of Proteins on TiO Support. <b>2021</b> , 37, 5012-5021		4
1197	Surface-Enhanced Raman Scattering (SERS) Spectroscopy for Sensing and Characterization of Exosomes in Cancer Diagnosis. <b>2021</b> , 13,		16
1196	Bioinspired protein corona strategy enhanced biocompatibility of Ag-Hybrid hollow Au nanoshells for surface-enhanced Raman scattering imaging and on-demand activation tumor-phototherapy. <b>2021</b> , 271, 120734		12
1195	Spectroscopy of model-membrane liposome-protein systems: complementarity of linear dichroism, circular dichroism, fluorescence and SERS. <b>2021</b> , 5, 61-75		0
1194	Bottom-Up Assembled Photonic Crystals for Structure-Enabled Label-Free Sensing. <i>ACS Nano</i> , <b>2021</b> , 15, 9299-9327	16.7	11
1193	Block Copolymer Directed Metamaterials and Metasurfaces for Novel Optical Devices. <b>2021</b> , 9, 2100175		11
1192	Optoelectronic Gas Sensing Platforms: From Metal Oxide Lambda Sensors to Nanophotonic Metamaterials. <b>2021</b> , 2, 2000141		4
1191	Photothermal Response Induced by Nanocage-Coated Artificial Extracellular Matrix Promotes Neural Stem Cell Differentiation. <b>2021</b> , 11,		1
1190	Quantifying Analyte Surface Densities and Their Distribution with Respect to Electromagnetic Hot Spots in Plasmon-Enhanced Spectroscopic Biosensors. <b>2021</b> , 125, 9866-9874		1
1189	Lamellar hafnium ditelluride as an ultrasensitive surface-enhanced Raman scattering platform for label-free detection of uric acid. <b>2021</b> , 9, 1039		1
1188	An Optical Radiation Efficiency of the Composite Nanocylinders. <b>2021</b> ,		0
1187	MnO <sub>2</sub> shell-isolated SERS nanoprobe for the quantitative detection of ALP activity in trace serum: Relying on the enzyme-triggered etching of MnO <sub>2</sub> shell to regulate the signal. <b>2021</b> , 334, 129605		3
1186	Synthesis, Assembly, Optical Properties, and Sensing Applications of Plasmonic Gap Nanostructures. <b>2021</b> , 33, e2006966		15
1185	Surface Enhanced Infrared Absorption Studies of SiO <sub>2</sub> /TiO <sub>2</sub> /Ag Nanofibers: Effect of Silver Electrodeposition Time on the Amplification of Signals. <b>2021</b> , 11, 563		1
1184	Vibrational spectroscopy and DFT analysis of 4-cyanophenylhydrazine: A potential SERS probe. <b>2021</b> , 253, 119574		1
1183	Surface-enhanced Raman scattering nanotags for bioimaging. <b>2021</b> , 129, 191101		13

1182	SERS Selective Enhancement on Monolayer MoS Enabled by a Pressure-Induced Shift from Resonance to Charge Transfer. <b>2021</b> , 13, 26551-26560	5
1181	Ag Microplasma-Engineered Nanoassemblies on Cellulose Papers for Surface-Enhanced Raman Scattering and Catalytic Nitrophenol Reduction. <b>2021</b> , 4, 6364-6375	2
1180	The Beginner's Guide to Chiral Plasmonics: Mostly Harmless Theory and the Design of Large-Area Substrates. <b>2021</b> , 9, 2100378	16
1179	Elucidating Gold-MnO Core-Shell Nanoenvelope for Real Time SERS-Guided Photothermal Therapy on Pancreatic Cancer Cells.. <b>2021</b> , 4, 4962-4972	3
1178	Massively Parallel Arrays of Size-Controlled Metallic Nanogaps with Gap-Widths Down to the Sub-3-nm Level. <b>2021</b> , 33, e2100491	6
1177	Preventing Memory Effects in Surface-Enhanced Raman Scattering Substrates by Polymer Coating and Laser-Activated Deprotection. <i>ACS Nano</i> , <b>2021</b> , 15, 8984-8995	16.7 9
1176	A review of spatially resolved techniques and applications of organic petrography in shale petroleum systems. <b>2021</b> , 241, 103745	13
1175	Metallic Plasmonic Array Structures: Principles, Fabrications, Properties, and Applications. <b>2021</b> , e2007988	21
1174	Capturing polycyclic aromatic sulfur heterocycles in electron donor-acceptor complexes. <b>2021</b> , 31, 326-329	1
1173	Recent advances in dual recognition based surface enhanced Raman scattering for pathogenic bacteria detection: A review. <b>2021</b> , 1157, 338279	16
1172	Controlled Assembly of Plasmonic Nanoparticles: From Static to Dynamic Nanostructures. <b>2021</b> , 33, e2007668	18
1171	Au@ZIF-8 SERS paper for food spoilage detection. <b>2021</b> , 179, 113063	25
1170	From Dilute to Multiple Layers: Bottom-Up Self-Assembly of Rough Gold Nanorods as SERS Platform for Quantitative Detection of Thiram in Soil. <b>2021</b> , 8, 2100412	5
1169	Integrating Cycled Enzymatic DNA Amplification and Surface-Enhanced Raman Scattering for Sensitive Detection of Circulating Tumor DNA. <b>2021</b> , 8, 676065	1
1168	Heisenberg uncertainty of spatially gated electromagnetic fields. <b>2021</b> , 154, 174110	1
1167	Fractal microstructure on Ag film via plasma discharge as SERS substrates.	
1166	Process Window for Seeded Growth of Arrays of Quasi-Spherical Substrate-Supported Au Nanoparticles. <b>2021</b> , 37, 6032-6041	0
1165	Capturing polycyclic aromatic sulfur heterocycles in electron donor-acceptor complexes. <b>2021</b> , 31, 326-329	

1164	Prospects in interfaces of biomolecule DNA and nanomaterials as an effective way for improving surface enhanced Raman scattering: A review. <b>2021</b> , 291, 102399	3
1163	Solution-Based SERS Detection of Weak Surficial Affinity Molecules Using Cysteamine-Modified Au Bipyramids. <b>2021</b> , 93, 7657-7664	5
1162	Plasmonic MOF Thin Films with Raman Internal Standard for Fast and Ultrasensitive SERS Detection of Chemical Warfare Agents in Ambient Air. <b>2021</b> , 6, 2241-2251	14
1161	Directional Raman scattering spectra of metal-sulfur bonds at smooth gold and silver substrates. <b>2021</b> , 52, 1246-1255	3
1160	Enhancement factors in electrochemical surface oxidation enhanced Raman scattering. <b>2021</b> , 380, 138223	1
1159	SERS Amplification in Au/Si Asymmetric Dimer Array Coupled to Efficient Adsorption of Thiophenol Molecules. <b>2021</b> , 11,	3
1158	Rapid Biomarker Screening of Alzheimer's Disease by Machine Learning and Graphene-Assisted Raman Spectroscopy.	0
1157	Advances in the diagnosis of autoimmune diseases based on citrullinated peptides/proteins. <b>2021</b> , 21, 685-702	2
1156	In Situ Analytical Techniques for the Investigation of Material Stability and Interface Dynamics in Electrocatalytic and Photoelectrochemical Applications.. <b>2021</b> , 5, e2100322	7
1155	In Situ Growth Large Area Silver Nanostructure on Metal Phenolic Network Coated NAAO Film and Its SERS Sensing Application for Monofluoroacetic Acid. <b>2021</b> , 6, 2129-2135	1
1154	Magneto-optical methods for magnetoplasmonics in noble metal nanostructures. <b>2021</b> , 129, 211101	9
1153	Propagation mechanism of surface plasmons coupled with surface-enhanced resonant Raman scattering light through a one-dimensional hotspot along a silver nanowire dimer junction. <b>2021</b> , 103,	2
1152	Paper-based plasmonic substrates as surface-enhanced Raman scattering spectroscopy platforms for cell culture applications. <b>2021</b> , 11, 100125	1
1151	Selecting Surface-Enhanced Raman Spectroscopy Flavors for Multiplexed Imaging Applications: Beyond the Experiment. <b>2021</b> , 12, 5564-5570	1
1150	On-Site Detection of SARS-CoV-2 Antigen by Deep Learning-Based Surface-Enhanced Raman Spectroscopy and Its Biochemical Foundations. <b>2021</b> , 93, 9174-9182	14
1149	Photonics of human saliva: potential optical methods for the screening of abnormal health conditions and infections. <b>2021</b> , 13, 1-27	3
1148	Silver nanoparticle aggregates: Wavelength dependence of their SERS properties in the first transparency window of biological tissues. <b>2021</b> , 2, 100014	3
1147	Dengue Detection: Advances in Diagnostic Tools From Conventional Technology to Point of Care. <b>2021</b> , 11,	5



1146	Reduced Self-Aggregation and Improved Stability of Silica-Coated FeO/Ag SERS-Active Nanotags Functionalized With 2-Mercaptoethanesulfonate. <b>2021</b> , 9, 697595	1
1145	Quantification of Methotrexate in Human Serum Using Surface-Enhanced Raman Scattering-Toward Therapeutic Drug Monitoring. <b>2021</b> , 6, 2664-2673	2
1144	Multiplexed live-cell profiling with Raman probes. <b>2021</b> , 12, 3405	7
1143	Ultrahigh surface sensitivity of deposited gold nanorod arrays for nanoplasmonic biosensing. <b>2021</b> , 23, 101046	3
1142	Nanoparticle fragmentation at solid state under single picosecond laser pulse stimulation.	
1141	Structure-adjustable colloidal silver nanoparticles on polymers grafted cellulose paper-based highly sensitive and selective SERS sensing platform with analyte enrichment function. <b>2021</b> , 867, 159158	7
1140	Silver-Graphene Oxide Nanohybrids for Highly Sensitive, Stable SERS Platforms. <b>2021</b> , 9, 665205	3
1139	The Role of Raman Spectroscopy Within Quantitative Metabolomics. <b>2021</b> , 14, 323-345	5
1138	Mesoscopic electrodynamics at metal surfaces. <b>2021</b> , 10, 2563-2616	13
1137	Nanostructured Au-Based Surface-Enhanced Raman Scattering Substrates and Multivariate Regression for pH Sensing. <b>2021</b> , 4, 5768-5777	2
1136	Waveguide Enhanced Raman Spectroscopy for Biosensing: A Review. <b>2021</b> , 6, 2025-2045	2
1135	Circularly Polarized Plasmons in Chiral Gold Nanowires via Quantum-Mechanical Design. <b>2021</b> , 12, 5829-5835	1
1134	Tailored Light Scattering through Hyperuniform Disorder in Self-Organized Arrays of High-Index Nanodisks. <b>2021</b> , 9, 2100186	9
1133	Role of dispersion relation effect in topological surface-enhanced Raman scattering. <b>2021</b> , 2, 100488	3
1132	Plasmonic metal-organic frameworks.	7
1131	Comparison study of Surface-enhanced Raman spectroscopy substrates. <b>2021</b> , 1984, 012020	1
1130	Accessing BCG in infected macrophages by antibody-mediated drug delivery system and tracking by surface-enhanced Raman scattering spectroscopy. <b>2021</b> , 255, 119660	1
1129	One-step fabrication of fiber optic SERS sensors via spark ablation. <b>2021</b> , 32,	4

1128	Targets and Tools: Nucleic Acids for Surface-Enhanced Raman Spectroscopy. <b>2021</b> , 11,	2
1127	Recent developments on gold nanostructures for surface enhanced Raman spectroscopy: Particle shape, substrates and analytical applications. A review. <b>2021</b> , 1168, 338474	16
1126	Core-shell Plasmonic Nanostructures on Au Films as SERS Substrates: Thickness of Film and Quality Factor of Nanoparticle Matter. <b>2021</b> , 125, 16024-16032	1
1125	Reproducible, shelf-stable, and bioaffinity SERS nanotags inspired by multivariate polyphenolic chemistry for bacterial identification. <b>2021</b> , 1167, 338570	23
1124	Reaktionsverfolgung von Festphasensynthesen in selbstassemblierenden Monolagen mit oberflächenverstärkter Raman-Spektroskopie. <b>2021</b> , 133, 18126-18134	0
1123	Flexible nanocellulose-based SERS substrates for fast analysis of hazardous materials by spiral scanning. <b>2021</b> , 414, 125160	15
1122	Self-assembled nano-Ag/Au@Au film composite SERS substrates show high uniformity and high enhancement factor for creatinine detection. <b>2021</b> , 32,	7
1121	Beaming Elastic and SERS Emission from Bent-Plasmonic Nanowire on a Mirror Cavity. <b>2021</b> , 12, 6589-6595	3
1120	A Bioorthogonal Probe for Multiscale Imaging by F-MRI and Raman Microscopy: From Whole Body to Single Cells. <b>2021</b> , 143, 12253-12260	6
1119	Sulphur vacancies modified Cd <sub>0.5</sub> Zn <sub>0.5</sub> S/Bi <sub>2</sub> S <sub>3</sub> : Engineering localized surface plasma resonance enhanced visible-light-driven hydrogen evolution. <b>2021</b> , 415, 128868	14
1118	Universal Fabrication of Highly Efficient Plasmonic Thin-Films for Label-Free SERS Detection. <b>2021</b> , 17, e2100755	8
1117	Chemical Enhancement vs Molecule-Substrate Geometry in Plasmon-Enhanced Spectroscopy. <b>2021</b> , 8, 2243-2255	6
1116	Controlling the Electron Concentration for Surface-Enhanced Raman Spectroscopy. <b>2021</b> , 8, 2410-2416	0
1115	Stabilization of Plasmonic Silver Nanostructures with Ultrathin Oxide Coatings Formed Using Atomic Layer Deposition. <b>2021</b> , 125, 17212-17220	1
1114	Role of Herzberg-Teller Vibronic Coupling in Surface-Enhanced Resonance Raman Spectra of 4,4'-Diaminotolane with Nearly Close Molecular and Charge-Transfer Transitions. <b>2021</b> , 125, 17202-17211	1
1113	Nanozymes-Hitting the Biosensing "Target". <b>2021</b> , 21,	7
1112	A Bimodal Fluorescence-Raman Probe for Cellular Imaging. <b>2021</b> , 10,	2
1111	Ammonia modified graphene oxide-Gold nanoparticles composite as a substrate for surface enhanced Raman spectroscopy. <b>2021</b> , 554, 149060	4

1110	Monitoring Solid-Phase Reactions in Self-Assembled Monolayers by Surface-Enhanced Raman Spectroscopy. <b>2021</b> , 60, 17981-17988	6
1109	3D Printed Microfluidic Device for Magnetic Trapping and SERS Quantitative Evaluation of Environmental and Biomedical Analytes. <b>2021</b> , 13, 34752-34761	10
1108	Binary Surfactant-Mediated Tunable Nanotip Growth on Gold Nanoparticles and Applications in Photothermal Catalysis. <b>2021</b> , 9, 699548	0
1107	Mechanically Tunable Lattice-Plasmon Resonances by Templated Self-Assembled Superlattices for Multi-Wavelength Surface-Enhanced Raman Spectroscopy.. <b>2021</b> , 5, e2100453	6
1106	Recent advancement in nano-optical strategies for detection of pathogenic bacteria and their metabolites in food safety. <b>2021</b> , 1-19	2
1105	Microfluidic Transport of Hybrid Optoplasmonic Particles for Repeatable SERS Detection. <b>2021</b> , 93, 10672-10678	6
1104	Enhancement of refractive index sensing for an infrared plasmonic metamaterial absorber with a nanogap. <b>2021</b> , 29, 22796-22804	3
1103	Tailoring lab-on-fiber SERS optrodes towards biological targets of different sizes. <b>2021</b> , 339, 129321	9
1102	Formation mechanisms of sub-micron pharmaceutical composite particles derived from far- and near-field Raman microscopy. <b>2021</b> , 11, 480-489	6
1101	Probing Multidimensional Structural Information of Single Molecules Transporting through a Sub-10 nm Conical Plasmonic Nanopore by SERS. <b>2021</b> , 93, 11679-11685	6
1100	Synergistic SERS Enhancement in GaN-Ag Hybrid System toward Label-Free and Multiplexed Detection of Antibiotics in Aqueous Solutions. <b>2021</b> , 8, e2100640	4
1099	Methods in Raman spectroscopy for saliva studies  review. 1-57	9
1098	Electrostatic Deposition Kinetics of Colloidal Silver Nanoplates onto Optically and E-Beam Transparent Water-Insoluble Polycationic Films. <b>2021</b> , 125, 17870-17880	1
1097	Recent Progress of SERS Nanoprobe for pH Detecting and Its Application in Biological Imaging. <b>2021</b> , 11,	2
1096	Analysis of Raman Spectra by Using Deep Learning Methods in the Identification of Marine Pathogens. <b>2021</b> , 93, 11089-11098	12
1095	Development of bioorthogonal SERS imaging probe in biological and biomedical applications. <b>2021</b> , 32, 2369-2379	8
1094	Mechanically Tunable Nanogap Antennas: Single-Structure Effects and Multi-Structure Applications. <b>2021</b> , 9, 2100326	3
1093	Advances of surface-enhanced Raman and IR spectroscopies: from nano/microstructures to macro-optical design. <b>2021</b> , 10, 161	24

1092	Emission Manipulation by DNA Origami-Assisted Plasmonic Nanoantennas. <b>2021</b> , 9, 2100848	1
1091	Modification of a SERS-active Ag surface to promote adsorption of charged analytes: effect of Cu ions. <b>2021</b> , 12, 902-912	1
1090	Highly Sensitive Low-Frequency Time-Domain Raman Spectroscopy via Fluorescence Encoding. <b>2021</b> , 12, 7859-7865	1
1089	Synthesis of Single- and Few-Layer Nitrogen-doped Graphene and Layer-Dependent Surface-Enhanced Raman Scattering Properties. <b>2021</b> , 125, 17831-17840	1
1088	Introducing low cost large scale hydrophobic SERS substrate. <b>2021</b> ,	0
1087	Versatile Silver Nanoparticles-Based SERS Substrate with High Sensitivity and Stability. <b>2021</b> , 2, 242-256	1
1086	Bulk plasmon polariton in hyperbolic metamaterials excited by multilayer nanoparticles for surface-enhanced Raman scattering (SERS) sensing. <b>2021</b> , 10, 2949-2958	10
1085	Au Nanorings with Intertwined Triple Rings. <b>2021</b> , 143, 15113-15119	3
1084	SERS Gas Sensors Based on Multiple Polymer Films with High Design Flexibility for Gas Recognition. <b>2021</b> , 21,	2
1083	Distinctly Different Morphologies of Bimetallic Au-Ag Nanostructures and Their Application in Submicromolar SERS-Detection of Free Base Porphyrin. <b>2021</b> , 11,	
1082	Reusable dual-enhancement SERS sensor based on graphene and hybrid nanostructures for ultrasensitive lead (II) detection. <b>2021</b> , 341, 130031	10
1081	Spatially resolved determination of the abundance of the HER2 marker in microscopic breast tumors using targeted SERS imaging. <b>2021</b> , 188, 288	1
1080	Machine Learning Enhances the Performance of Bioreceptor-Free Biosensors. <b>2021</b> , 21,	7
1079	Roadmap on Universal Photonic Biosensors for Real-Time Detection of Emerging Pathogens. <b>2021</b> , 8, 342	2
1078	Machine Learning-Assisted Sampling of SERS Substrates Improves Data Collection Efficiency. <b>2021</b> , 37028211034543	
1077	Operando toolbox for heterogeneous interface in electrocatalysis. <b>2021</b> , 1, 509-522	2
1076	Radiative Contributions Dominate Plasmon Broadening for Post-Transition Metals in the Ultraviolet. <b>2021</b> , 125, 19428-19437	1
1075	Influence of Nuclear Localization Sequences on the Intracellular Fate of Gold Nanoparticles. <i>ACS Nano</i> , <b>2021</b> , 15, 14838-14849	16.7 3

1074	Double fingerprint characterization of uracil and 5-fluorouracil. <b>2021</b> , 388, 138615	2
1073	Can Nanocavities Significantly Enhance Resonance Energy Transfer in a Single Donor-Acceptor Pair?. <b>2021</b> , 125, 18119-18128	3
1072	A facile, portable surface-enhanced Raman spectroscopy sensing platform for on-site chemometrics of toxic chemicals. <b>2021</b> , 343, 130102	3
1071	Insights into Shape-Based Silver Nanoparticles: A Weapon to Cope with Pathogenic Attacks. <b>2021</b> , 9, 12476-12507	7
1070	Site-Selective Deposition of Metal-Organic Frameworks on Gold Nanobipyramids for Surface-Enhanced Raman Scattering. <b>2021</b> , 21, 8205-8212	7
1069	Aptasensors for Risk Assessment in Food. <b>2021</b> , 12, 714265	1
1068	A Comprehensive Review on Raman Spectroscopy Applications. <b>2021</b> , 9, 262	21
1067	Challenges and Opportunities of Tip-Enhanced Raman Spectroscopy in Liquids.	4
1066	Plasmon-Enhanced Fluorescence Near Single Gold Nanoplates Studied by Scanning Near-Field Two-Photon Excitation Microscopy. <b>2021</b> , 125, 21070-21076	2
1065	Easy-to-make-and-use gold nanotrench arrays for surface-enhanced Raman scattering. <b>2021</b> , 11, 3363	0
1064	Monitoring anthropogenic particles in the environment: Recent developments and remaining challenges at the forefront of analytical methods. <b>2021</b> , 56, 101513	4
1063	Rapid and sensitive SERS detection of melamine in milk using Ag nanocube array substrate coupled with multivariate analysis. <b>2021</b> , 357, 129717	7
1062	High Throughput Blood Analysis Based on Deep Learning Algorithm and Self-Positioning Super-Hydrophobic SERS Platform for Non-Invasive Multi-Disease Screening. 2103382	12
1061	Functionalized Gold Nanorod Probes: A Sophisticated Design of SERS Immunoassay for Biodetection in Complex Media. <b>2021</b> , 93, 12954-12965	2
1060	Calcium Alginate Gel Beads Containing Gold Nanobipyramids for Surface-Enhanced Raman Scattering Detection in Aqueous Samples.	1
1059	Engineering Efficient Self-Assembled Plasmonic Nanostructures by Configuring Metallic Nanoparticle's Morphology. <b>2021</b> , 22,	2
1058	Electrochemical generation of surface enhanced Raman scattering substrates for the determination of folic acid. <b>2021</b> , 896, 115288	1
1057	The Current State of Traumatic Brain Injury Biomarker Measurement Methods. <b>2021</b> , 11,	2

1056	Trends in the bacterial recognition patterns used in surface enhanced Raman spectroscopy. <b>2021</b> , 142, 116310	1
1055	Iodide Functionalized Paper-Based SERS Sensors for Improved Detection of Narcotics. <b>2021</b> , 9, 680556	4
1054	In situ synthesis of hybrid zinc oxide-silver nanoparticle arrays as a powerful active platform for surface-enhanced Raman scattering detection. <b>2021</b> , 6, 379-389	1
1053	Mesoporous Au films assembled on flexible cellulose nanopaper as high-performance SERS substrates. <b>2021</b> , 419, 129445	26
1052	Microplasma-Engineered Ag/GONR-Based Nanocomposites for Selective and Label-Free SERS-Sensitive Detection of Dopamine.	1
1051	Facile synthesis of noble metal decorated carbon nanostructure for SERS detection.	0
1050	Thermoplasmonics of metal layers and nanoholes.	1
1049	Aqueous Microlenses for Localized Collection and Enhanced Raman Spectroscopy of Gaseous Molecules. 2101209	1
1048	Synthesis of porous silicon based nanoparticles for applications in surface enhanced Raman spectroscopy. <b>2021</b> , 191, 110335	0
1047	Catching COVID: Engineering Peptide-Modified Surface-Enhanced Raman Spectroscopy Sensors for SARS-CoV-2. <b>2021</b> , 6, 3436-3444	8
1046	Metformin hydrochloride action on cell membrane N-cadherin expression and cell nucleus revealed by SERS nanoprobe. <b>2021</b> , 232, 122442	0
1045	A new and facile route to prepare gold nanoparticle clusters on anodic aluminium oxide as a SERS substrate. <b>2021</b> , 232, 122426	3
1044	Monatomic Iodine Dielectric Layer for Multimodal Optical Spectroscopy of Dye Molecules on Metal Surfaces. <b>2021</b> , 143, 15205-15214	2
1043	Protein capture and SERS detection on multiwavelength rainbow-trapping width-graded nano-gratings. <b>2021</b> , 32,	0
1042	Chemically Etched Nanoporous Copper and Galvanically Displaced Silver Nanoflowers for SERS Sensing.	3
1041	One-step fabrication of highly dense gold nanoparticles on polyamide for surface-enhanced Raman scattering. <b>2021</b> , 561, 149856	2
1040	Multimodal Contrast Agents for Optoacoustic Brain Imaging in Small Animals. <b>2021</b> , 9, 746815	1
1039	Magnetically Enhanced Liquid SERS for Ultrasensitive Analysis of Bacterial and SARS-CoV-2 Biomarkers. <b>2021</b> , 9, 735711	1

1038	Gold Nanostars with Reduced Fouling Facilitate Small Molecule Detection in the Presence of Protein. <b>2021</b> , 11,	0
1037	SERS Chemical Enhancement of 2,4,5-Trichlorophenoxyacetic Acid Adsorbed on Silver Substrate. <b>2021</b> , 125, 8529-8541	2
1036	Detection of K562 Leukemia Cells in Different States Using a Graphene-SERS Platform. <b>2021</b> , 4, 8972-8978	2
1035	Surface-enhanced Raman scattering beyond plasmonics. <b>2022</b> , 17, 1	
1034	Modulating the Electron Affinity of Small Bipyridyl Molecules on Single Gold Nanoparticles for Plasmon-Driven Electron Transfer.	3
1033	Tuning surface-enhanced Raman scattering activity of silver nanowires. <b>2021</b> , 244, 167537	0
1032	Drug preconcentration and direct quantification in biofluids using 3D-Printed paper cartridge. <b>2021</b> , 189, 113266	3
1031	Intrinsic Raman signal amplification for rapid identification and detection of methylglyoxal in manuka honey. <b>2021</b> , 1181, 338902	
1030	Plasmonic paper substrates for point-of-need applications: Recent developments and fabrication methods. <b>2021</b> , 345, 130401	7
1029	Nanobiotechnology enabled approaches for wastewater based epidemiology. <b>2021</b> , 143, 116400	4
1028	A new SERS substrate based on Zn <sub>2</sub> GeO <sub>4</sub> nanostructures for the rapid identification of E.Coli and methylene blue. <b>2021</b> , 47, 27998-28003	2
1027	Construction of periodic Ag/Au cascade nanostructure with long-term stable SERS properties. <b>2021</b> , 563, 150367	0
1026	A hybrid Ag/TiO <sub>2</sub> nanoarray-based in situ charge transfer toward multi-functional active-platform. <b>2021</b> , 47, 27524-27534	3
1025	A SERS-based competitive immunoassay using highly ordered gold cavity arrays as the substrate for simultaneous detection of adrenergic agonists. <b>2021</b> , 345, 130230	4
1024	Detection and remediation of pollutants to maintain ecosustainability employing nanotechnology: A review. <b>2021</b> , 280, 130792	18
1023	Raman spectroscopy for virus detection and the implementation of unorthodox food safety. <b>2021</b> , 116, 525-532	3
1022	SERS-based test strips: Principles, designs and applications. <b>2021</b> , 189, 113360	22
1021	Nanomaterials Based Biosensing: Methods and Principle of Detection. <b>2022</b> , 1-27	1

1020	Ti3C2Tx-AgNPs@beta-cyclodextrin SERS substrate for rapid and selective determination of erythrosin B in dyed food. <b>2021</b> , 346, 130595	4
1019	In-situ SERS readout strategy to improve the reliability of beta-galactosidase activity assay based on X-gal staining in shortening incubation times. <b>2021</b> , 234, 122689	0
1018	Polymer-nanoimprinting route for the construction of large-area Au@Ag plasmonic arrays using as highly-uniform SERS platforms. <b>2021</b> , 121, 111532	1
1017	Label-free surface-enhanced Raman spectroscopy for diagnosis and analysis of serum samples with different types lung cancer. <b>2021</b> , 261, 120021	3
1016	Stable and sensitive SERS-based immunoassay enabled by core-shell immunoprobe and paper-based immunosubstrate. <b>2021</b> , 347, 130606	1
1015	Detection of nanoplastics based on surface-enhanced Raman scattering with silver nanowire arrays on regenerated cellulose films. <b>2021</b> , 272, 118470	9
1014	Insertable and reusable SERS sensors for rapid on-site quality control of fish and meat products. <b>2021</b> , 426, 130733	5
1013	Gold-silver core-shell nanodumbbells in solution state as a highly sensitive and reproducible assay platform for bacterial genome detection. <b>2021</b> , 349, 130784	1
1012	Destroying the symmetric structure to promote phase transition: Improving the SERS performance and catalytic activity of MoS2 nanoflowers. <b>2021</b> , 886, 161268	3
1011	On-demand nanoparticle-on-mirror (NPoM) structure for cost-effective surface-enhanced Raman scattering substrates. <b>2021</b> , 263, 120193	0
1010	Ultra-sensitive and fast optical detection of the spike protein of the SARS-CoV-2 using AgNPs/SiNWs nanohybrid based sensors.. <b>2021</b> , 27, 101454	4
1009	Surface-enhanced Raman scattering-based lateral flow immunoassay mediated by hydrophilic-hydrophobic Ag-modified PMMA substrate. <b>2021</b> , 262, 120092	11
1008	Three dimensional porous Expanded Graphite/Silver Nanoparticles nanocomposite platform as a SERS substrate. <b>2021</b> , 568, 150946	4
1007	Photothermal-induced partial Leidenfrost superhydrophobic surface as ultrasensitive surface-enhanced Raman scattering platform for the detection of neonicotinoid insecticides. <b>2021</b> , 348, 130728	4
1006	Multifunctional AgCO microrods as SERS-active substrate for the detection and degradation of Rhodamine B dye. <b>2021</b> , 263, 120176	1
1005	Plasmonic metal/semiconductor hybrid nanomaterials for solar to chemical energy conversion. <b>2021</b> , 63, 40-53	1
1004	Comprehensive review of conventional and state-of-the-art detection methods of Cryptosporidium. <b>2022</b> , 421, 126714	4
1003	Self-functional gold nanoprobles for intra-nuclear epigenomic monitoring of cancer stem-like cells. <b>2022</b> , 195, 113644	1



1002 SERS for sensing and imaging in live cells. **2022**, 303-325

1001 Label-free surface-enhanced Raman scattering for clinical applications. **2022**, 125-170

0

1000 Sandwich optoplasmonic hybrid structure for surface enhanced Raman spectroscopy. **2022**, 264, 120252

1

999 Principles of surface-enhanced Raman spectroscopy. **2022**, 1-32

0

998 Plasmon-driven photocatalytic properties based on the surface of gold nanostar particles. **2022**, 264, 120240

3

997 Trapping analytes into dynamic hot spots using Tyramine-medicated crosslinking chemistry for designing versatile sensor. **2022**, 607, 782-790

2

996 Coupling enhancement mechanisms, materials, and strategies for surface-enhanced Raman scattering devices. **2021**, 146, 5008-5032

4

995 Unveiling the interaction of protein fibrils with gold nanoparticles by plasmon enhanced nano-spectroscopy. **2021**, 13, 14469-14479


5

994 A highly-efficient, stable, and flexible Kapton tape-based SERS chip. **2021**, 5, 6471-6475

2

993 SERS uncovers the link between conformation of cytochrome c heme and mitochondrial membrane potential.

2

992 Nanoparticles in analytical laser and plasma spectroscopy  a review of recent developments in methodology and applications. **2021**, 36, 1826-1872

6

991 Dressing Plasmons in Nanoparticle-in-Quasi-Cavity Architectures for Trace-Level Surface-Enhanced Raman Spectroscopy Detection. **2021**, 4, 152-158

2

990 Enhancement of nonclassical Raman light intensity by plasmonic nanoantenna. **2021**, 103,

2

989 Surface-enhanced Raman spectroscopy for bioanalysis and diagnosis. **2021**, 13, 11593-11634

20

988 Recent Advances in Metal Organic Frameworks Based Surface Enhanced Raman Scattering Substrates: Synthesis and Applications. **2021**, 26,

13

987 Substrate-immobilized noble metal nanoplates: a review of their synthesis, assembly, and application.

7

986 A Potential Plasmonic Biosensor Based Asymmetric Metal Ring Cavity with Extremely Narrow Linewidth and High Sensitivity. **2021**, 21,

2

985 Optically induced aggregation by radiation pressure of gold nanorods on graphene for SERS detection of biomolecules. **2021**, 136, 1

- 984 Digital plasmonic holography with iterative phase retrieval for sensing. **2021**, 29, 3026-3037
- 983 MCR-ALS with sample insertion constraint to enhance the sensitivity of surface-enhanced Raman scattering detection. **2021**, 146, 3251-3262 4
- 982 Reusable and highly sensitive SERS immunoassay utilizing gold nanostars and a cellulose hydrogel-based platform. **2021**, 9, 7516-7529 5
- 981 Studying 2D materials with advanced Raman spectroscopy: CARS, SRS and TERS. **2021**, 23, 23428-23444 4
- 980 Synthesis and defect engineering of molybdenum oxides and their SERS applications. **2021**, 13, 5620-5651 12
- 979 N-Heterocyclic Carbene-Stabilized Gold Nanoparticles: Mono- Versus Multidentate Ligands. **2021**, 33, 921-933 8
- 978 Emergent chiroptical properties in supramolecular and plasmonic assemblies. **2021**, 50, 11208-11226 3
- 977 Single-nanoparticle spectroelectrochemistry studies enabled by localized surface plasmon resonance. **2021**, 23, 19120-19129 2
- 976 Raman Imaging: An Impending Approach Towards Cancer Diagnosis. **2021**, 16, 409-422 8
- 975 Nanoscale Multiband Surface-enhanced Raman Spectroscopy by Multiresonant Nanolaminate Plasmonics. **2021**,
- 974 Are charged tips driving TERS-resolution? A full quantum chemical approach. **2021**, 154, 034106 5
- 973 Spontaneous Raman and Surface-Enhanced Raman Scattering Bioimaging. **2021**, 3233, 177-195 1
- 972 MoS<sub>2</sub>-based composite nanozymes with superior peroxidase-like activity for ultrasensitive SERS detection of glucose. 2
- 971 Enhancing Nonfouling and Sensitivity of Surface-Enhanced Raman Scattering Substrates for Potent Drug Analysis in Blood Plasma via Fabrication of a Flexible Plasmonic Patch. **2021**, 93, 2578-2588 10
- 970 Antibacterial, Antiviral, and Self-Cleaning Mats with Sensing Capabilities Based on Electrospun Nanofibers Decorated with ZnO Nanorods and Ag Nanoparticles for Protective Clothing Applications. **2021**, 13, 5678-5690 49
- 969 Gold nanoparticle-mediated non-covalent functionalization of graphene for field-effect transistors. **2021**, 3, 1404-1412 3
- 968 Electrochemical top-down synthesis of C-supported Pt nano-particles with controllable shape and size: Mechanistic insights and application. **2021**, 14, 2762-2769 9
- 967 Finding the Needle in a Haystack: Capturing Veiled Plexcitonic Coupling through Differential Spectroscopy. **2020**, 124, 26387-26395 2

966	Excellent Trace Detection of Proteins on TiO <sub>2</sub> Nanotube Substrates through Novel Topography Optimization. <b>2020</b> , 124, 27790-27800	3
965	Metal Nanoparticles/MoS Surface-Enhanced Raman Scattering-Based Sandwich Immunoassay for Fetoprotein Detection. <b>2021</b> , 13, 8823-8831	11
964	Spatially Resolving the Enhancement Effect in Surface-Enhanced Coherent Anti-Stokes Raman Scattering by Plasmonic Doppler Gratings. <i>ACS Nano</i> , <b>2021</b> , 15, 809-818	16.7 3
963	Bioinspired Disordered Flexible Metasurfaces for Human Tear Analysis Using Broadband Surface-Enhanced Raman Scattering. <b>2020</b> , 5, 12915-12922	13
962	Robust and cost-effective silver dendritic nanostructures for SERS-based trace detection of RDX and ammonium nitrate.. <b>2020</b> , 10, 44747-44755	7
961	Optical scanning tunneling microscopy based chemical imaging and spectroscopy. <b>2020</b> , 32, 463001	10
960	Atomic-level characterization of liquid/solid interface. <b>2020</b> , 29, 116803	2
959	Tailoring the plasmonic properties of metals: The case of substoichiometric titanium nitride. <b>2020</b> , 4,	5
958	Impact of substrate on tip-enhanced Raman spectroscopy: A comparison between field-distribution simulations and graphene measurements. <b>2020</b> , 2,	8
957	Facile construction of large-area periodic Ag-Au composite nanostructure and its reliable SERS performance. <b>2020</b> , 59, 8505-8510	2
956	Full optical characterization of single nanoparticles using quantitative phase imaging. <b>2020</b> , 7, 243	17
955	3D Nanophotonic device fabrication using discrete components. <b>2020</b> , 9, 1373-1390	6
954	Effects of Ag contents on the microstructure and SERS performance of self-grown Ag nanoparticles/MoAg alloy films. <b>2020</b> , 9, 751-759	8
953	Prospects for Raman spectroscopy in cardiology. <b>2020</b> , 19, 70-77	3
952	Plasmonic Gold Nanostars for Immuno Photothermal Nanotherapy to Treat Cancers and Induce Long-Term Immunity. <b>2021</b> , 173-190	
951	Flexible SERS substrates for hazardous materials detection: recent advances. <b>2021</b> , 210048-210048	24
950	Determination of NADH by Surface Enhanced Raman Scattering Using Au@MB@Ag NPs. <b>2021</b> ,	
949	Molecular trace detection in liquids using refocusing optical feedback by a silver-coated capillary.	0

948	Optical Field and Chemical Environment Near the Surface Modified Gold Nanoparticle Assembly Revealed by Two-Photon Induced Photoluminescence and Surface Enhanced Raman Scattering. <b>2021</b> , 94, 2272-2278	2
947	Metallic Nanopopcorns: A New Multimodal Approach for Theranostics. <b>2021</b> , 17, 670-678	
946	Rainbows at the End of Subwavelength Discontinuities: Plasmonic Light Trapping for Sensing Applications. <b>2021</b> , 9, 2100695	1
945	Symmetry-Reduced Metal Nanostructures Offer New Opportunities in Plasmonics and Catalysis.	4
944	Kinetic Regulation of the Synthesis of Pentatwinned Gold Nanorods below Room Temperature. <b>2021</b> , 125, 23937-23944	2
943	Improved Room-Temperature Ferromagnetism in Nd-Doped SnO <sub>2</sub> Nanostructures through Defect Engineering. <b>2021</b> , 125, 22175-22187	1
942	Toward spectrometerless instant Raman identification with tailored metasurfaces-powered guided-mode resonances (GMR) filters. <b>2021</b> ,	
941	Self-Complementary Zwitterionic Peptides Direct Nanoparticle Assembly and Enable Enzymatic Selection of Endocytic Pathways. <b>2021</b> , e2104962	4
940	Tip-Enhanced Raman Spectroscopy of 2D Semiconductors.	0
939	Flexible Surface-Enhanced Raman Scattering Substrates: A Review on Constructions, Applications, and Challenges. <b>2021</b> , 8, 2100982	2
938	An Investigation of Surface-Enhanced Raman Scattering of Different Analytes Adsorbed on Gold Nanoislands. <b>2021</b> , 11, 9838	1
937	Raman spectroscopic techniques for nondestructive analysis of agri-foods: A state-of-the-art review. <b>2021</b> , 118, 490-504	6
936	Enhanced Surface-Enhanced Raman Scattering Activity of MoS <sub>2</sub> /Ag-Reduced Graphene Oxide: Structure-Mediated Excitonic Transition. <b>2021</b> , 125, 23259-23266	1
935	Label-Free Mycotoxin Raman Identification by High-Performing Plasmonic Vertical Carbon Nanostructures. <b>2021</b> , 17, e2103677	4
934	Multiplexed Single-Cell Plasmonic Immunoassay of Intracellular Signaling Proteins Enables Non-Destructive Monitoring of Cell Fate. <b>2021</b> , 93, 14204-14213	2
933	Recent advancements and future submissions of silica core-shell nanoparticles. <b>2021</b> , 609, 121173	8
932	Mirror enhanced directional out-coupling of SERS by remote excitation of a nanowire-nanoparticle cavity.	0
931	Understanding the Impact of Sulfur Poisoning on the Methane-Reforming Activity of a Solid Oxide Fuel Cell Anode. 13556-13566	3

930	Nanocomposite Scaffolds for Monitoring of Drug Diffusion in Three-Dimensional Cell Environments by Surface-Enhanced Raman Spectroscopy. <b>2021</b> , 21, 8785-8793	5
929	In-Situ Synthesis of Methyl Cellulose Film Decorated with Silver Nanoparticles as a Flexible Surface-Enhanced Raman Substrate for the Rapid Detection of Pesticide Residues in Fruits and Vegetables. <b>2021</b> , 14,	2
928	A Cluster Model for Interpretation of Surface-Enhanced Raman Scattering of Organic Compounds Interacting with Silver Nanoparticles. <b>2022</b> , 255-285	
927	Ordered Hierarchical Ag Nanostructures as Surface-Enhanced Raman Scattering Platforms for (Bio)chemical Sensing and Pollutant Monitoring.	4
926	Biosensing Using SERS Active Gold Nanostructures. <b>2021</b> , 11,	8
925	Mesoporous One-Component Gold Microshells as 3D SERS Substrates. <b>2021</b> , 11,	1
924	Sub-Part-Per-Billion Level Sensing of Fentanyl Residues from Wastewater Using Portable Surface-Enhanced Raman Scattering Sensing. <b>2021</b> , 11,	1
923	Going Beyond the Limits of Classical Atomistic Modeling of Plasmonic Nanostructures. <b>2021</b> , 125, 23848-23863	4
922	Amorphous Ni(OH) <sub>2</sub> nanocages as efficient SERS substrates for selective recognition in mixtures. <b>2021</b> , 631, 127652	1
921	Lab-on-A-chip compatible design laying over nanostructured silicon. <b>2021</b> , 122, 111713	
920	An efficient SERS platform for the ultrasensitive detection of Staphylococcus aureus and Listeria monocytogenes via wheat germ agglutinin-modified magnetic SERS substrate and streptavidin/aptamer co-functionalized SERS tags. <b>2021</b> , 1187, 339155	5
919	Acoustofluidic platforms for particle manipulation. <b>2021</b> ,	2
918	Recent Analytical Method for Detection of Chemical Adulterants in Herbal Medicine. <b>2021</b> , 26,	2
917	Comparative analysis of SERS-active colloidal silver solutions of various type and prospects of their applications. <b>2021</b> , 2058, 012023	
916	Scalable Fabrication of Metallic Nanogaps at the Sub-10 nm Level. <b>2021</b> , e2102756	10
915	Dark-field imaging and Raman spectroscopy study of the interaction process between cells and nanoparticles. <b>2021</b> ,	
914	Diagnosis and staging of diffuse large B-cell lymphoma using label-free surface-enhanced Raman spectroscopy. <b>2022</b> , 267, 120571	2
913	Enhanced efficient and sensitive SERS sensing via controlled Ag-nanoparticle-decorated 3D flower-like ZnO hierarchical microstructure. <b>2020</b> , 15, 1126-1129	4

912	Surface-enhanced Raman scattering (SERS) spectroscopy on localized silver nanoparticle-decorated porous silicon substrate. <b>2021</b> , 146, 7645-7652	0
911	From Raman to SESORRS: moving deeper into cancer detection and treatment monitoring. <b>2021</b> , 57, 12436-12451	0
910	Design and synthesis of gold nanostars-based SERS nanotags for bioimaging applications.. <b>2022</b> , 6, 10-30	11
909	Surface-enhanced Raman scattering of CoTiO <sub>3</sub> @Ag nanofibers for high-performance sensing applications. <b>2022</b> , 573, 151509	2
908	Advances in Surface Enhanced Raman Spectroscopy for Imaging in Oncology.. <b>2022</b> , 6, 31-49	3
907	Optimizing SERS performance through aggregation of gold nanorods in Langmuir-Blodgett films. <b>2022</b> , 573, 151518	5
906	Growing AuNRs in a single step with NIR plasmon for superior SERS and plasmonic photothermal performance. <b>2022</b> , 161, 110421	0
905	Enhancement of SERS effect in Graphene-Silver hybrids. <b>2022</b> , 574, 151724	7
904	Long-range ordered TiO <sub>2</sub> /Au hollow urchins: topology control for maskless electrodeposition. <b>2020</b> , 8, 26035-26044	3
903	Electronic Raman Scattering Calibration for Quantitative Surface-enhanced Raman Spectroscopy and Improved Biostatistical Analysis. <b>2020</b> ,	
902	Additional Commentary on the Detection and Quantification of Plastic Micro- and Nanoparticles in Tea Samples. <b>2021</b> , 75, 882-885	1
901	Deep Subwavelength Laser-Induced Periodic Surface Structures on Silicon as a Novel Multifunctional Biosensing Platform. <b>2021</b> , 13, 54551-54560	4
900	Hand-Held Raman Spectrometer-Based Dual Detection of Creatinine and Cortisol in Human Sweat Using Silver Nanoflakes. <b>2021</b> , 93, 14996-15004	2
899	Optimal Excitation Wavelength for Surface-Enhanced Raman Spectroscopy: The Role of Chemical Interface Damping. <b>2021</b> , 12, 11014-11021	3
898	Toward Sensitive and Reliable Surface-Enhanced Raman Scattering Imaging: From Rational Design to Biomedical Applications. <b>2021</b> , 6, 3912-3932	5
897	Demonstration of a Superior Deep-UV Surface-Enhanced Resonance Raman Scattering (SERRS) Substrate and Single-Base Mutation Detection in Oligonucleotides. <b>2021</b> , 143, 19282-19286	1
896	The application of Raman spectroscopy to the diagnosis of mitochondrial muscle disease: A preliminary comparison between fibre optic probe and microscope formats.	0
895	Antifouling superhydrophobic surfaces with bactericidal and SERS activity. <b>2021</b> , 431, 133445	8

894	Construct High-Precise SERS Sensor by Hierarchical Superhydrophobic Si/Cu(OH) <sub>2</sub> Platform for Ultratrace Detection of Food Contaminants. <b>2021</b> , 352, 131056	0
893	Zeptomole detection of DNA based on microparticle dissociation from a glass plate in a combined acoustic-gravitational field. <b>2022</b> , 238, 123042	1
892	Hexagonal arrays of plasmonic gold nanopyramids on flexible substrates for surface-enhanced Raman scattering. <b>2021</b> ,	0
891	Plasmonic Gradient Arrays for Rapid Screening of Surface-Enhanced Raman Scattering Efficiency: Particle Libraries of Gold Nanostars.	3
890	Edge-engineered self-assembled hierarchical plasmonic SERS templates. <b>2021</b> , 6, 100186	0
889	High enhancement factor of SERS probe based on silver nano-structures deposited on a silica microsphere by laser-assisted photochemical method. <b>2021</b> , 32, 025109	
888	Anomaly detection using 1D convolutional neural networks for surface enhanced raman scattering. <b>2020</b> ,	3
887	Receiver operating characteristics analysis of Surface Enhanced Raman Spectroscopy (SERS) sensors. <b>2020</b> ,	
886	Boron nitride nanosheets for surface-enhanced Raman spectroscopy. <b>2022</b> , 22, 100575	0
885	Synthesis of SERS-active core@satellite nanoparticles using heterobifunctional PEG linkers.	0
884	Fabrication of Fe <sub>3</sub> O <sub>4</sub> @Ag magnetic nanoparticles for highly active SERS enhancement and paraquat detection. <b>2022</b> , 173, 107019	1
883	Ag nanowires based SERS substrates with very high enhancement factor. <b>2022</b> , 137, 115080	1
882	Recyclable SERS substrate: Optimised by reducing masking effect through colloidal lithography. <b>2022</b> , 578, 151852	1
881	Plasmonic Biosensors for the Detection of Lung Cancer Biomarkers: A Review. <b>2021</b> , 9, 326	4
880	2D MoO <sub>2</sub> /N-Doped-Carbon Nanosheets as SERS Tweezers: A Non-Noble Metal Reusable Substrate for Selective Organic Dye Detection. <b>2021</b> , 4, 11611-11624	0
879	Long-Term Stable Structures Formed by Ion-Beam Modification of Silver Film for SERS Applications. <b>2021</b> , 2015, 012099	0
878	A three dimensional porous diamond-multilayer graphene nanohybrid film for surface-enhanced Raman spectroscopy. <b>2021</b> , 121, 108737	
877	Watching Reactions at Solid-Liquid Interfaces with in Situ Raman Spectroscopy.	1

876	SERSNet: Surface-Enhanced Raman Spectroscopy Based Biomolecule Detection Using Deep Neural Network.. <b>2021</b> , 11,	0
875	Analyte-Induced Desert Rose-like Ag Nanostructures for Surface-Enhanced Raman Scattering-Based Biomolecule Detection and Imaging. <b>2021</b> ,	1
874	Hybrid Sol-Gel Surface-Enhanced Raman Sensor for Xylene Detection in Solution. <b>2021</b> , 21,	
873	Plasmonic Core-Shell-Satellites with Abundant Electromagnetic Hotspots for Highly Sensitive and Reproducible SERS Detection. <b>2021</b> , 22,	2
872	A simple and reliable approach for the fabrication of nanoporous silver patterns for surface-enhanced Raman spectroscopy applications. <b>2021</b> , 11, 22295	1
871	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles. <i>ACS Nano</i> , <b>2021</b> ,	16.7 3
870	Hybrid Metal-Dielectric-Metal Sandwiches for SERS Applications.. <b>2021</b> , 11,	1
869	Recent advancements in plasmonic optical biosensors: a review. 1	1
868	Label-free Surface Enhanced Raman Scattering (SERS) on Centrifugal Silver Plasmonic Paper (CSPP): A Novel Methodology for Unprocessed Biofluids Sampling and Analysis. <b>2021</b> , 11,	2
867	Emergence of Surface-Enhanced Raman Scattering Probes in Near-Infrared Windows for Biosensing and Bioimaging. <b>2021</b> ,	6
866	Structural engineering of transition-metal nitrides for surface-enhanced Raman scattering chips. 1	1
865	In Situ Electrodeposition of Gold Nanostructures in 3D Ultra-Thin Hydrogel Skins for Direct Molecular Detection in Complex Mixtures with High Sensitivity. <b>2021</b> , 15, 2100316	1
864	Review on combining surface-enhanced Raman spectroscopy and electrochemistry for analytical applications.. <b>2022</b> , 1209, 339250	4
863	Gold Nanopolyhedron-Based Superlattice Sheets as Flexible Surface-Enhanced Raman Scattering Sensors for Detection of 4-Aminothiophenol. <b>2021</b> , 4, 12498-12505	0
862	Advanced technologies for single-cell in situ protein profiling. <b>2022</b> , 65, 48	4
861	Vibrational Spectroscopy in Bioanalysis. <b>2022</b> , 135-166	0
860	Chiral Quantum Metamaterial for Hypersensitive Biomolecule Detection. <i>ACS Nano</i> , <b>2021</b> ,	16.7 1
859	Cellular SERS structures for non-invasive study of living cells. <b>2021</b> , 2015, 012036	



858	Subwavelength probing of surface plasmons in magnetoplasmonic crystals. <b>2021</b> , 2015, 012041	1
857	Flexible Plasmonic Biosensors for Healthcare Monitoring: Progress and Prospects. <i>ACS Nano</i> , <b>2021</b> , 16.7	13
856	Surface-Enhanced Raman Scattering-Active Gold-Decorated Silicon Nanowire Substrates for Label-Free Detection of Bilirubin. <b>2021</b> ,	2
855	Tannin-furanic foams used as biomaterial substrates for SERS sensing in possible wastewater filter applications. <b>2021</b> , 8, 115404	1
854	60-nt DNA Direct Detection without Pretreatment by Surface-Enhanced Raman Scattering with Polycationic Modified Ag Microcrystal Derived from AgCl Cube. <b>2021</b> , 26,	
853	Non-invasive discrimination of multiple myeloma using label-free serum surface-enhanced Raman scattering spectroscopy in combination with multivariate analysis.. <b>2022</b> , 1191, 339296	1
852	Nanoparticle Fragmentation below the Melting Point under Single Picosecond Laser Pulse Stimulation.	1
851	Raman microspectroscopy for microbiology. <b>2021</b> , 1,	9
850	Advances in droplet microfluidics for SERS and Raman analysis. <b>2021</b> , 198, 113822	2
849	SERS molecular-ruler based DNA aptamer single-molecule and its application to multi-level optical storage. <b>2021</b> , 133666	1
848	Time-Evolved SERS Signatures of DEP-Trapped Au and ZnAl <sub>2</sub> O <sub>4</sub> Peptides Revealed by a Sub-10 nm Electrode Nanogap. <b>2021</b> ,	0
847	Multiplexed Liquid Biopsy and Tumor Imaging Using Surface-Enhanced Raman Scattering. <b>2021</b> , 11,	2
846	Optical Imaging and Tracking of Single Molecules in Ultrahigh Vacuum.	
845	Porous Au-Ag Nanoparticles from Galvanic Replacement Applied as Single-Particle SERS Probe for Quantitative Monitoring. <b>2021</b> , e2105209	4
844	Single Crystals Heterogeneity Impacts the Intrinsic and Extrinsic Properties of Metal-Organic Frameworks. <b>2021</b> , e2104530	2
843	Annealing treatment of focused gallium ion beam processing of SERS gold substrate. <b>2021</b> , 4, 043004	0
842	Integrated enhanced Raman scattering: a review. <b>2021</b> , 8, 41	0
841	Tip-Enhanced Raman Scattering on Both Sides of the Schrödinger Equation. <b>2021</b> ,	6

840	Instant Preparation of Ultraclean Gold Nanothorns under Ambient Conditions for SERS Kit-Enabled Mobile Diagnosis. <b>2021</b> ,	1
839	Near-Infrared Light-Responsive SERS Tags Enable Positioning and Monitoring of the Drug Release of Photothermal Nanomedicines In Vivo. <b>2021</b> ,	2
838	Spectrally Resolved Surface-Enhanced Raman Scattering Imaging Reveals Plasmon-Mediated Chemical Transformations.. <b>2021</b> , 1, 38-46	1
837	Selectively Tracking Nanoparticles in Aquatic Plant Using Core-Shell Nanoparticle-Enhanced Raman Spectroscopy Imaging. <i>ACS Nano</i> , <b>2021</b> ,	16.7 2
836	In situ electrochemical surface modification of Au electrodes for simultaneous label-free SERS detection of ascorbic acid, dopamine and uric acid. <b>2021</b> , 353, 131196	4
835	UV-light-assisted synthesis of CeB6@Ag nano-trees for SERS application. <b>2021</b> ,	0
834	Optimum synthesis of cactus-inspired SERS substrate with high roughness for paraquat detection.. <b>2021</b> , 268, 120703	0
833	Interfacial Dynamics, Chemistry, and Photochemistry of Molecular Ligands on Plasmonic Nanoparticle Surfaces: Insights From Surface-Enhanced Raman Spectroscopy. <b>2021</b> ,	
832	Tuning the topographical parameters of Si pyramids for a better surface enhanced Raman response. <b>2021</b> , 23, 26407-26416	1
831	Development of Au NPs-decorated filter paper as a SERS platform for the detection of benzidine.. <b>2021</b> , 11, 39797-39803	1
830	An Excitation Wavelength-Optimized, Stable SERS Biosensing Nanoplatfrom for Analyzing Adenoviral and AstraZeneca COVID-19 Vaccination Efficacy Status Using Tear Samples of Vaccinated Individuals.	
829	Ultrasensitive detection of vitamin E by signal conversion combined with core-satellite structure-based plasmon coupling effect.. <b>2022</b> ,	0
828	Controlling Localized Plasmons via an Atomistic Approach: Attainment of Site-Selective Activation inside a Single Molecule.. <b>2022</b> ,	1
827	3D hierarchically porous magnetic molybdenum trioxide@gold nanospheres as a nanogap-enhanced Raman scattering biosensor for SARS-CoV-2.	2
826	The micro-, submicron-, and nanoplastic hunt: A review of detection methods for plastic particles.. <b>2022</b> , 133514	7
825	A highly sensitive surface-enhanced Raman scattering substrate prepared on a hydrophobic surface using controlled evaporation.. <b>2021</b> , 12, 331-337	0
824	Synthesis of Silver Nanoparticles with Long-term storability for SERS Applications Using Aqueous Extracts of Rice Bran: A Rapid and Green Photochemical Approach. <b>2022</b> , 1254, 132338	1
823	Evidence of cluster formation of pyrrole with mixed silver metal clusters, Ag <sub>x</sub> -My (x'=4,5, y'=2/1 and M'=Au/Ni/Cu) using DFT/SERS analysis. <b>2022</b> , 1208, 113569	7

822	Copper nanoparticles containing tellurite glasses: An efficient SERS substrate. <b>2022</b> , 278, 125597	1
821	Wafer-scale nanocracks enable single-molecule detection and on-site analysis.. <b>2021</b> , 200, 113920	1
820	Hydrothermal synthesis and Ta doping of TiO <sub>2</sub> nanorods: Effect of soaking time and doping on optical and charge transfer properties for enhanced SERS activity. <b>2022</b> , 278, 125642	3
819	Shaped femtosecond laser-regulated deposition sites of galvanic replacement for simple preparation of large-area controllable noble metal nanoparticles. <b>2022</b> , 579, 152123	3
818	Metal-free and flexible surface-enhanced Raman scattering substrate based on oxidized carbon cloth. <b>2022</b> , 189, 152-161	0
817	Plasmonic Au-Ag alloy nanostars based high sensitivity surface enhanced Raman spectroscopy fiber probes. <b>2022</b> , 900, 163345	0
816	Colorimetry /SERS dual-sensor of HO constructed via TMB-FeO@ AuNPs.. <b>2021</b> , 240, 123118	3
815	An acousto-assisted liquid-marble-based microreactor for quantitative SERS detection of alkaline phosphatase. <b>2022</b> , 356, 131361	0
814	Simultaneous extraction and surface enhanced Raman spectroscopy detection for the rapid and reliable identification of nicotine released from snus products. <b>2021</b> , 13, 5608-5616	1
813	Design Considerations for Fit-for-Purpose SERS Sensors. <b>2021</b> ,	
812	Plasmonic nanoparticles based flexible micro stripe pattern for cellular behavior regulation and localized pH detection. <b>2021</b> ,	
811	The role of Raman spectroscopy in biopharmaceuticals from development to manufacturing. <b>2021</b> ,	2
810	Machine Learning-Based Heavy Metal Ion Detection Using Surface-Enhanced Raman Spectroscopy.. <b>2022</b> , 22,	0
809	Constructing the MoC@MoO Heterostructure for Improved SERS Application.. <b>2022</b> , 12,	0
808	Handheld SERS coupled with QuEChERS for the sensitive analysis of multiple pesticides in basmati rice.. <b>2022</b> , 6, 3	2
807	Sensitive and Homogeneous Surface-Enhanced Raman Scattering Detection Using Heterometallic Interfaces on Metal-Organic Framework-Derived Structure. 2102122	1
806	Gold Sunflower Microelectrode Arrays with Dendritic Nanostructures on the Lateral Surfaces for Antireflection and Surface-Enhanced Raman Scattering.	4
805	SERS Tags for Biomedical Detection and Bioimaging.. <b>2022</b> , 12, 1870-1903	6

804	Human metabolite detection by surface-enhanced Raman spectroscopy.. <b>2022</b> , 13, 100205	1
803	3D Printed SERS-Active Thin-Film Substrates Used to Quantify Levels of the Genotoxic Isothiazolinone.. <b>2022</b> , 7, 2850-2860	0
802	Multifunctional Switch Based on Spin-Labeled Gold Nanoparticles.. <b>2022</b> , 22, 768-774	
801	An Accessible Integrated Nanoparticle in a Metallic Hole Structure for Efficient Plasmonic Applications.. <b>2022</b> , 15,	1
800	Wafer-Scale and Cost-Effective Manufacturing of Controllable Nanogap Arrays for Highly Sensitive SERS Sensing.. <b>2022</b> ,	4
799	Role of AuAg alloy plasmonic layer thickness over pyramidal silicon in controlling SERS activity. 1	1
798	Material strategies for function enhancement in plasmonic architectures.. <b>2022</b> ,	3
797	Intelligent SERS Navigation System Guiding Brain Tumor Surgery by Intraoperatively Delineating the Metabolic Acidosis.. <b>2022</b> , e2104935	2
796	Visualizing surface marker expression and intratumoral heterogeneity with SERRS-NPs imaging.. <b>2022</b> , 6, 256-269	2
795	Lectin-Modified Bacterial Cellulose Nanocrystals Decorated with Au Nanoparticles for Selective Detection of Bacteria Using Surface-Enhanced Raman Scattering Coupled with Machine Learning. <b>2022</b> , 5, 259-268	8
794	Recent Development of Optofluidics for Imaging and Sensing Applications. <b>2022</b> , 10, 15	1
793	Advances and applications of nanophotonic biosensors.. <b>2022</b> , 17, 5-16	38
792	Recent progress in metalorganic frameworks-based materials toward surface-enhanced Raman spectroscopy. 1-16	0
791	Positively-charged plasmonic nanostructures for SERS sensing applications.. <b>2021</b> , 12, 845-859	1
790	Bioengineered solar harvesting systems for next generation applications. <b>2022</b> , 231, 857-879	2
789	Microfluidics and surface-enhanced Raman spectroscopy, a win-win combination?. <b>2022</b> ,	5
788	Electrostatic self-assembly of 2D Janus PS@Au nanoraspberry photonic-crystal array with enhanced near-infrared SERS activity. <b>2022</b> , 3, 1512-1517	1
787	Observation of the plasmon mode transition from triangular to hexagonal nanoplates.. <b>2022</b> , 156, 044702	1

786	Highly electric field enhancement induced by anapole modes coupling in the hybrid dielectric-metal nanoantenna. <b>2022</b> , 511, 127987	0
785	Plasmon-enhanced stimulated Raman scattering microscopy. <b>2022</b> , 343-356	
784	Four-dimensional nanofabrication for next-generation optical devices. 1	1
783	Electromagnetic Field Enhancement of Nanostructured TiN Electrodes Probed with Surface-Enhanced Raman Spectroscopy.. <b>2022</b> , 22,	2
782	3D imaging of single bacterial cells using surface-enhanced Raman spectroscopy with a multivariate curve resolution model. <b>2021</b> ,	
781	Optical Nanopore Sensors for Quantitative Analysis.. <b>2022</b> ,	3
780	Self-Assembled Metal Nanohole Arrays with Tunable Plasmonic Properties for SERS Single-Molecule Detection.. <b>2022</b> , 12,	0
779	Surface-Enhanced Electronic Raman Scattering at Various Metal Surfaces. 2100589	2
778	Engineering metal oxide semiconductor nanostructures for enhanced charge transfer: fundamentals and emerging SERS applications. <b>2021</b> , 10, 73-95	11
777	Latest Advances and Developments to Detection of Micro- and Nanoplastics Using Surface-Enhanced Raman Spectroscopy. 2100217	0
776	Prospects of Surface-Enhanced Raman Spectroscopy for Biomarker Monitoring toward Precision Medicine.. <b>2022</b> , 9, 333-350	7
775	Paving the Way to Industrially Fabricated Disposable and Customizable Surface-Enhanced Raman Scattering Microfluidic Chips for Diagnostic Applications. 2101365	1
774	Monitoring of DNA-Hg Binding Reaction within Confined Nanospace of Metamaterial Nanochannel by Plasmon-Enhanced Raman Scattering.. <b>2022</b> , 13, 1330-1336	0
773	Widefield SERS for High-Throughput Nanoparticle Screening.	
772	Widefield SERS for High-Throughput Nanoparticle Screening.. <b>2022</b> ,	2
771	SERS-based lateral flow immunoassay strip for ultrasensitive and quantitative detection of acrosomal protein SP10. <b>2022</b> , 175, 107191	1
770	Engineered optoplasmonic core-satellite microspheres for SERS determination of methamphetamine derivative and its precursors. <b>2022</b> , 358, 131437	0
769	SERS study of wheat leaves substrates with two different structures. <b>2022</b> , 510, 127921	3

768	Localized Plasmonic Sensor for the Direct Identifying Lung and Colon Cancer from the Blood.	
767	Surface enhanced Raman spectroscopy for tumor nucleic acid: Towards cancer diagnosis and precision medicine.. <b>2022</b> , 204, 114075	3
766	Ring-in-a-Triangle Nanoframes: Integrating with Intra- and Interhotspots for Highly Amplified Near-Field Focusing.. <b>2022</b> ,	1
765	Assembly of long silver nanowires into highly aligned structure to achieve uniform "Hot Spots" for Surface-enhanced Raman scattering detection.. <b>2022</b> , 273, 121030	0
764	Universal Theory of Light Scattering of Randomly Oriented Particles: A Fluctuational-Electrodynamics Approach for Light Transport Modeling in Disordered Nanostructures.. <b>2022</b> , 9, 672-681	0
763	Key Factors for Tuning Au Self-Assembling SERS Films: from Properties to Structure. <b>2021</b> , 129, 495	0
762	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <b>2022</b> ,	25
761	Synthesis of silver leaves and their potential application for analysis and degradation of phenolic pollutants.. <b>2022</b> ,	1
760	Turing Structured Au/Graphene Oxide-Polyethylene Glycol Thin Film for Surface Enhanced Raman Scattering Detection of Trace Dye. 2102461	2
759	Application of Advanced Vibrational Spectroscopy in Revealing Critical Chemical Processes and Phenomena of Electrochemical Energy Storage and Conversion.. <b>2022</b> ,	4
758	A novel enhanced substrate for label-free detection of SARS-CoV-2 based on surface-enhanced Raman scattering.. <b>2022</b> , 359, 131568	3
757	Hoechst 33258 aggregation and binding to DNA studied by SERS spectroscopy.	
756	Single-Droplet Surface-Enhanced Raman Scattering Decodes the Molecular Language of Liquid-Liquid Phase Separation.	
755	In Situ/Operando Raman Techniques in LithiumSulfur Batteries. 2100170	10
754	Strong Local Field Enhancement of Raman Scattering Observed in Metal-Dielectric Gratings due to Vertical Fabry-Perot Modes of Surface Plasmon Polaritons. <b>2022</b> , 17,	0
753	Emerging Role of Liquid Metals in Sensing.. <b>2022</b> ,	9
752	Forensic Identification of Fentanyl and its Analogs by Electrochemical-Surface Enhanced Raman Spectroscopy (EC-SERS) for the Screening of Seized Drugs of Abuse. <b>2022</b> , 2,	2
751	The key role of ergothioneine in label-free surface-enhanced Raman scattering spectra of biofluids: a retrospective re-assessment of the literature.. <b>2022</b> ,	1

750	An excitation wavelength-optimized, stable SERS biosensing nanoplatfom for analyzing adenoviral and AstraZeneca COVID-19 vaccination efficacy status using tear samples of vaccinated individuals.. <b>2022</b> , 204, 114079	3
749	Molecular Polaritonics: Chemical Dynamics Under Strong Light-Matter Coupling. <b>2021</b> ,	13
748	Lab-on-fiber SERS optrodes for biological target detection. <b>2021</b> ,	
747	Strong Selective Anti-Stokes Raman Scattering Enhancement in Plasmonics Using Photon Density of States Engineering. <b>2021</b> , 125, 27654-27660	2
746	Plasmonically Generated Tryptophan Radical Anion on Gold Nanoparticles Investigated by Combined Surface-Enhanced Raman Scattering and Density Functional Theory Calculations. <b>2021</b> , 125, 27596-27606	0
745	Hybrid 2D Correlation-Based Loss Function for the Correction of Systematic Errors.. <b>2021</b> ,	2
744	Raman Spectroscopy and Imaging in Bioanalytics.. <b>2021</b> ,	4
743	Using Epi-Luminescence Microscopy to Visualize and Control the Distribution of Luminophores on a Highly-Developed Surface. <b>2021</b> , 85, 1393-1399	2
742	Advances in Photonic Crystal Fiber for Biomedical Applications: A Review.	
741	Assembly of gold nanorods functionalized by zirconium-based metal-organic frameworks for surface enhanced Raman scattering.. <b>2022</b> ,	2
740	Facile synthesis of Ag-niobium ditelluride nanocomposites for the molecular fingerprint analysis of muscle tissues.. <b>2022</b> ,	
739	Crystalline Phase Induced Raman Enhancement on Molybdenum Carbide.	1
738	Magnetic, Plasmonic Superstructure-Targets-Plasmonic Superstructure Based Sandwich-Type Sers Biosensor for Ultrasensitive Detection of Tacrolimus.	
737	Surface Engineering of Standing Hollow Circular Cylinder Ordered Arrays (Hcca) and Used as Platform for Excellent Sers Substrate.	
736	Microfluidic platforms for extracellular vesicle isolation, analysis and therapy in cancer.. <b>2022</b> ,	2
735	Silver nanoparticles, nanoneedles and nanorings: impact of electromagnetic near-field on surface-enhanced Raman scattering.. <b>2022</b> ,	0
734	Recent Advances and Opportunities of Plasmonic Sensors. <b>2022</b> , 297-330	0
733	Anisotropic silica coating on gold nanorods boosts their potential as SERS sensors.. <b>2022</b> ,	3

732	Etched-spiky Au@Ag plasmonic-superstructure monolayer films for triple amplification of surface-enhanced Raman scattering signals.. <b>2022</b> ,	8
731	Influencing factors and characterization methods of nanoparticles regulating amyloid aggregation.. <b>2022</b> ,	0
730	Ion beam nanoengineering of surfaces for molecular detection using surface enhanced Raman scattering.	1
729	Self-assembling plasmonic film of different-sized gold nanoparticles as a SERS substrate: the optimization study. <b>2022</b> , 2172, 012007	
728	Stationary, Continuous, and Sequential Surface-Enhanced Raman Scattering Sensing Based on the Nanoscale and Microscale Polymer-Metal Composite Sensor Particles through Microfluidics: A Review. <b>2022</b> , 10, 2102757	1
727	Investigation of Lattice Plasmon Modes in 2D Arrays of Au Nanoantennas. <b>2022</b> , 12, 336	0
726	Microporous Multiresonant Plasmonic Meshes by Hierarchical Micro-Nanoimprinting for Bio-Interfaced SERS Imaging and Nonlinear Nano-Optics.. <b>2022</b> , e2106887	2
725	Part-Per-Billion Level Chemical Sensing with a Gold-Based SERS-Active Substrate.. <b>2022</b> , 22,	0
724	Design Strategies of Gold Nanoparticles-Based Biosensors Coupled with Hybridization Chain Reaction or Catalytic Hairpin Assembly. <b>2022</b> , 7,	
723	Chemical and Physical Properties of Photonic Noble-metal Nanomaterials.. <b>2021</b> , e2108104	1
722	FDTD Analysis of Hotspot-Enabling Hybrid Nanohole-Nanoparticle Structures for SERS Detection.. <b>2022</b> , 12,	1
721	Surface-enhanced Raman probes based on gold nanomaterials for in vivo diagnosis and imaging.. <b>2022</b> ,	2
720	Exploiting Plasmonic Hot Spots in Au-Based Nanostructures for Sensing and Photocatalysis.. <b>2022</b> ,	5
719	Biomimetic Nano-Pine-Pollen Structure-Based Surface-Enhanced Raman Spectroscopy Sensing Platform for the Hypersensitive Detection of Toxicants: Cadmium and Amyloid. <b>2022</b> , 10, 3180-3190	1
718	Surface-Enhanced Raman Scattering Bioimaging with an Ultrahigh Signal-to-Background Ratio under Ambient Light.. <b>2022</b> ,	2
717	Unique Electronic Excitations at Highly Localized Plasmonic Field.. <b>2022</b> ,	0
716	Plasmonic Superlattice Membranes Based on Bimetallic Nano-Sea Urchins as High-Performance Label-Free Surface-Enhanced Raman Spectroscopy Platforms.. <b>2022</b> ,	1
715	Single-atom sites on perovskite chips for record-high sensitivity and quantification in SERS.. <b>2022</b> , 1-14	0



714	The Role of Surface Enhanced Raman Scattering for Therapeutic Drug Monitoring of Antimicrobial Agents. <b>2022</b> , 10, 128	0
713	Microscopic Understanding of Reaction Rates Observed in Plasmon Chemistry of Nanoparticle-Ligand Systems.. <b>2022</b> , 126, 5333-5342	3
712	Copper carbonate hydroxide as precursor of interfacial CO in CO2 electroreduction.. <b>2022</b> ,	2
711	Evaluation of two-dimensional transition-metal carbides and carbonitrides (MXenes) for SERS substrates. 1	4
710	Three-Dimensional Hot-Volume Plasmonic Gold Nanoreactor Array for Ultrasensitive Immunoassays. <b>2022</b> , 5, 4269-4280	0
709	Centrifugation-induced assembly of dense hotspots based SERS substrate for enhanced Raman scattering and quenched fluorescence.. <b>2022</b> ,	2
708	Double-Lattice Packing of Pentagonal Gold Bipyramids in Supercrystals with Triclinic Symmetry.. <b>2022</b> , e2200883	2
707	Wavelength-Dependent Plasmonic Photobleaching of Dye Molecules by Large-Area Au Nanostripe Arrays. <b>2022</b> , 5, 3470-3479	0
706	Silica-Encapsulated Core@Satellite Gold Nanoparticle Assemblies as Stable, Sensitive, and Multiplex Surface-Enhanced Raman Scattering Probes.	0
705	Visualized SERS Imaging of Single Molecule by Ag/Black Phosphorus Nanosheets.. <b>2022</b> , 14, 75	6
704	Comparison of dynamic corrections to the quasistatic polarizability and optical properties of small spheroidal particles.. <b>2022</b> , 156, 104110	2
703	Inkjet-printed paper-based surface enhanced Raman scattering (SERS) sensors for the detection of narcotics. <b>2022</b> , 7, 190	0
702	Single-Pulsed SERS with Density-Based Clustering Analysis.. <b>2022</b> ,	
701	Quantitative Detection of Creatinine in Human Serum by SERS with Evaporation-Induced Optimal Hotspots on Au Nanocubes.	2
700	Physical Properties and the Reconstruction of Unstable Decahedral Silver Nanoparticles Synthesized Using Plasmon-Mediated Photochemical Process.. <b>2022</b> , 12,	0
699	PLGA-Gold Nanocomposite: Preparation and Biomedical Applications.. <b>2022</b> , 14,	0
698	Experimental characterization techniques for plasmon-assisted chemistry.	8
697	N-Heterocyclic carbene-stabilized gold nanoparticles and luminescent quantum dots. <b>2022</b> ,	0

696	Recent advances in ultrafast plasmonics: from strong field physics to ultraprecision spectroscopy. <b>2022,</b>	0
695	3D SERS Imaging of Nanoporous Gold/Silver Microstructures: Exploring the Formation Mechanism Based on Galvanic Replacement Reaction. <b>2022,</b> 126, 5617-5627	1
694	Optimization of laser deposited silver nanoparticle substrates for surface enhanced raman spectroscopy.. <b>2022,</b>	
693	Cross-Wavelength Hierarchical Metamaterials Enabled for Trans-Scale Molecules Detection Simultaneously.. <b>2022,</b> e2105447	1
692	Wearable plasmonic paper-based microfluidics for continuous sweat analysis.. <b>2022,</b> 8, eabn1736	12
691	Si/TiO/Ag Multistorey Structures with Interfacial Charge Transfer for a Recyclable Surface-Enhanced Raman Scattering Substrate.. <b>2022,</b>	2
690	Challenges and Opportunities for Renewable Ammonia Production via Plasmon-Assisted Photocatalysis. 2103909	1
689	Toward a SERS Diagnostic Tool for Discrimination between Cancerous and Normal Bladder Tissues via Analysis of the Extracellular Fluid.. <b>2022,</b> 7, 10539-10549	0
688	Gold Nanostars: Synthesis, Optical and SERS Analytical Properties.	1
687	Defect-Rich Monolayer MoS as a Universally Enhanced Substrate for Surface-Enhanced Raman Scattering.. <b>2022,</b> 12,	2
686	Effect of plasma temperature and electron number density on signal enhancement observed in nanoparticle enhanced LIBS.	0
685	Daily-Life Candidates as Flexible SERS Substrates for Pesticide Detection: a Comparative Study. 1	2
684	Precise real-time quantification for photocatalytic reaction: integration of the sensitive in-situ SERS sensor and high-efficiency photocatalyst.. <b>2022,</b>	
683	Large-Area Monolayer Films of Hexagonal Close-Packed Au@Ag Nanoparticles as Substrates for SERS-Based Quantitative Determination.. <b>2022,</b>	2
682	Wide-Field Surface-Enhanced Coherent Anti-Stokes Raman Scattering Microscopy. <b>2022,</b> 9, 1042-1049	0
681	Freestanding and Permeable Nanoporous Gold Membranes for Surface-Enhanced Raman Scattering.. <b>2022,</b>	1
680	Raman Spectroscopy in Prostate Cancer: Techniques, Applications and Advancements.. <b>2022,</b> 14,	1
679	Atomically Thin TaSe Film as a High-Performance Substrate for Surface-Enhanced Raman Scattering.. <b>2022,</b> e2107027	2

678	Analyzing the serum of hemodialysis patients with end-stage chronic kidney disease by means of the combination of SERS and machine learning.		2
677	A versatile one-pot room temperature approach for the synthesis of gold nanoparticles with multiple sizes and shapes. <b>2022</b> , 128890		
676	High-Throughput Fabrication of Triangular Nanogap Arrays for Surface-Enhanced Raman Spectroscopy.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	1
675	Utilization of Nanoparticles, Nanodevices, and Nanotechnology in the Treatment Course of Cutaneous Melanoma. 2100208		1
674	Graphene Oxide-Coated Metal-Insulator-Metal SERS Substrates for Trace Melamine Detection.. <b>2022</b> , 12,		1
673	Finding a Sensitive Surface-Enhanced Raman Spectroscopic Thermometer at the Nanoscale by Examining the Functional Groups.. <b>2022</b> ,		1
672	Ultrasensitive detection of Cr(VI) using a novel SERS optical fiber probe modified by dual-functional methimazole. <b>2022</b> , 164916		2
671	Plasmonic Metal Nanoparticles Hybridized with 2D Nanomaterials for SERS Detection: A Review.. <b>2022</b> , 12,		0
670	Reproducible Fabrication of Gold Nanostar Monolayers for Surface-enhanced Raman Spectroscopy-based Trace Detection.		0
669	Silicon Nanostructures for Molecular Sensing: A Review.		3
668	Improved versatile SERS spheroid end-facet optical fiber substrate based on silver nano-dendrites directly planted with gold nanoparticles using dual-laser assisted for pesticides detection. <b>2022</b> , 126, 112196		1
667	Surface-enhanced raman scattering of Au-Ag bimetallic nanopillars fabricated using surface-plasmon lithography.. <b>2022</b> ,		
666	Highly Sensitive Pesticide Detection using Electrochemically Prepared Silver-Gum Arabic Nanocluster SERS Substrates. <b>2022</b> , 131851		0
665	Bolaform Surfactant-Induced Au Nanoparticle Assemblies for Reliable Solution-Based Surface-Enhanced Raman Scattering Detection. 2101726		
664	Polystyrene nanoplastics demonstrate high structural stability in vivo: A comparative study with silica nanoparticles via SERS tag labeling.. <b>2022</b> , 134567		0
663	Flexible microsphere-coupled surface-enhanced Raman spectroscopy (McSERS) by dielectric microsphere cavity array with random plasmonic nanoparticles.		0
662	Low-Cost Surface Enhanced Raman Scattering for Bio-Probes. <b>2022</b> , 3, 188-202		0
661	Alkali hydrolysis and Lewis acids assisted enhancement based highly sensitive and quantitative detection of malathion in tea using SERS and multivariate analysis. <b>2022</b> , 359, 131584		1

660	Rapid detection of viruses: Based on silver nanoparticles modified with bromine ions and acetonitrile.. <b>2022</b> , 438, 135589	5
659	A review on the contamination of SARS-CoV-2 in water bodies: Transmission route, virus recovery and recent biosensor detection techniques.. <b>2022</b> , 100482	0
658	Site-selective surface enhanced Raman scattering study of ligand exchange reactions on aggregated Ag nanocubes.. <b>2022</b> , 616, 110-120	1
657	Target-triggered core-satellite self-assemblies based on strong dipole plasmon Pt-tipped Au triangular nanoprism for dual-signal detection of telomerase and enhanced phototherapy. <b>2022</b> , 438, 135556	1
656	Three-dimensional hierarchical plasmonic nano-architecture based label-free surface-enhanced Raman spectroscopy detection of urinary exosomal miRNA for clinical diagnosis of prostate cancer.. <b>2022</b> , 205, 114116	7
655	Fine fabrication of TiO <sub>2</sub> /MoO <sub>x</sub> nano-heterojunctions and investigating on the improved charge transfer for SERS application. <b>2022</b> , 18, 100179	4
654	Current methods and emerging approaches for detection of programmed death ligand 1.. <b>2022</b> , 208, 114179	0
653	Process monitoring of photocatalytic degradation of 2,4-dinitrotoluene by Au-decorated FeO@TiO nanoparticles: surface-enhanced Raman scattering method.. <b>2022</b> , 275, 121155	0
652	Surface-Enhanced Raman and Surface-Enhanced fluorescence of charged dyes based on alginate silver nanoparticles and its calcium alginate hydrogel beads.. <b>2022</b> , 276, 121211	0
651	Surfactant-free preparation expanded graphite coupled with Ag nanoparticles as SERS high sensor via optimizing electromagnetic enhancement and adsorption behavior. <b>2022</b> , 592, 153264	0
650	Visualizing undyed microplastic particles and fibers with plasmon-enhanced fluorescence. <b>2022</b> , 442, 136117	0
649	Enhancement effects of metal nanostructures and metal nanofilms on various emissions by interactions of photons with materials or molecules. <b>2021</b> , 728, 59-81	
648	Lateral Size Effect of Graphene Oxide on Its Surface-Enhanced Raman Scattering Property. <b>2021</b> , 37, 14205-14213	0
647	Potential-Controlled (R)Evolution: Electrochemical Synthesis of Nanoparticles with Well-Defined Shapes. <b>2022</b> , 8,	0
646	Zeptomolar detection of 4-aminothiophenol by SERS using silver nanodendrites decorated with gold nanoparticles. <b>2021</b> ,	1
645	Nanoparticle Tracers in Reservoir-On-A-chip by Surface-Enhanced Raman Scattering - Fluorescence SERS-SEF Imaging Technology. <b>2021</b> ,	
644	General Background of SERS Sensing and Perspectives on Polymer-Supported Plasmon-Active Multiscale and Hierarchical Sensor Particles. <b>2022</b> , 10, 2102001	1
643	Attomolar Sensitive Magnetic Microparticles and a Surface-Enhanced Raman Scattering-Based Assay for Detecting SARS-CoV-2 Nucleic Acid Targets.. <b>2021</b> ,	1

642	In Situ Microfluidic SERS Chip for Ultrasensitive Hg Sensing Based on I-Functionalized Silver Aggregates.. <b>2021</b> ,	3
641	SERS Platform Based on Hollow-Core Microstructured Optical Fiber: Technology of UV-Mediated Gold Nanoparticle Growth.. <b>2021</b> , 12,	
640	Size Control in the Colloidal Synthesis of Plasmonic Magnesium Nanoparticles.. <b>2022</b> , 126, 563-577	5
639	Methodological Approaches for Monitoring Five Major Food Safety Hazards Affecting Food Production in the Galicia-Northern Portugal Euroregion.. <b>2021</b> , 11,	1
638	Two-dimensional layer materials for highly efficient molecular sensing based on surface-enhanced Raman scattering. <b>2021</b> , 36, 995-1012	1
637	Surface-enhanced mid-infrared absorption spectroscopy using miniaturized-disc metasurface. <b>2021</b> , 11, 23557	1
636	Recent Advances in Metallic Nanoparticle Assemblies for Surface-Enhanced Spectroscopy.. <b>2021</b> , 23,	1
635	Plasmonic Au@Ag@mSiO Nanorattles for In Situ Imaging of Bacterial Metabolism by Surface-Enhanced Raman Scattering Spectroscopy.. <b>2021</b> , 13, 61587-61597	2
634	Development of Effectual Substrates for SERS by Nanostructures-on flexible surfaces. <b>2021</b> , 2114, 012084	
633	Highly Ordered Polymer Nanostructures via Solvent On-Film Annealing for Surface-Enhanced Raman Scattering.. <b>2021</b> ,	1
632	Role of metal-nanostructure features on tip-enhanced photoluminescence of single molecules. <b>2021</b> , 155, 214304	0
631	Classification of Preeclamptic Placental Extracellular Vesicles Using Femtosecond Laser-fabricated Nanoplasmonic Sensors and Machine Learning.	0
630	Large-Area Nanosphere Self-Assembly Monolayers for Periodic Surface Nanostructures with Ultrasensitive and Spatially Uniform SERS Sensing. <b>2021</b> , e2104202	2
629	Plasmonic Circular Dichroism in Chiral Gold Nanowire Dimers.. <b>2021</b> , 27,	2
628	Enhancement periodic regularity of surface nano ripple structures on Si wafer using a square shaped flat-top beam femtosecond NIR laser. <b>2022</b> , 128, 1	0
627	Raman Scattering-Based Biosensing: New Prospects and Opportunities.. <b>2021</b> , 11,	4
626	Engineered CRISPR-Cas systems for the detection and control of antibiotic-resistant infections. <b>2021</b> , 19, 401	5
625	Single Molecule Surface Enhanced Raman Scattering in a Single Gold Nanoparticle-Driven Thermoplasmonic Tweezer. <b>2021</b> , 11910-11918	2

624	In-silico design of graphene plasmonic hot-spots.		1
623	Polydopamine stabilizes silver nanoparticles as a SERS substrate for efficient detection of myocardial infarction.. <b>2022</b> ,		1
622	Emergence of Responsive Surface-Enhanced Raman Scattering Probes for Imaging Tumor-Associated Metabolites.. <b>2022</b> , e2200030		
621	SERS Immunosensor Based on High-Density Hotspots[Au@SiO <sub>2</sub> Array Substrate and Au-Ag Nanoshells Probes for Ultrasensitive Detection of Dual Biomarkers in the Cervical Cancer Serum.		1
620	Wafer-Scale 2H-MoS <sub>2</sub> Monolayer for High Surface-enhanced Raman Scattering Performance: Charge-Transfer Coupled with Molecule Resonance. 2200217		0
619	1,4-Benzenedithiol-Bridged Nanogap-Based Individual Particle Surface-Enhanced Raman Spectroscopy Mechanical Probe for Revealing the Endocytic Force.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	0
618	Use of Raman Spectroscopy, Scanning Electron Microscopy and Energy Dispersive X-ray Spectroscopy in a Multi-Technique Approach for Physical Characterization of Purple Urine Bag Syndrome. <b>2022</b> , 12, 4034		1
617	Plasmonic Nanosensors: Design, Fabrication, and Applications in Biomedicine. <b>2022</b> , 10, 150		1
616	Single-Molecule SERS Hotspot Dynamics in Both Dry and Aqueous Environments.		2
615	Silica-Coated Gold Nanorod Supraparticles: A Tunable Platform for Surface Enhanced Raman Spectroscopy. 2200148		1
614	Face-to-Face Assembly of Ag Nanoplates on Filter Papers for Pesticide Detection by Surface-Enhanced Raman Spectroscopy.. <b>2022</b> , 12,		0
613	Complementary Powerful Techniques for Investigating the Interactions of Proteins with Porous TiO <sub>2</sub> and Its Hybrid Materials: A Tutorial Review.. <b>2022</b> , 12,		
612	Surface-enhanced Raman scattering biosensors for detection of oncomiRs in breast cancer.. <b>2022</b> ,		1
611	High-Performance Surface-Enhanced Raman Scattering Substrates Based on the ZnO/Ag Core-Satellite Nanostructures.. <b>2022</b> , 12,		2
610	In Situ pH Measurement of Water Droplets Using Flash-Freeze Surface-Enhanced Raman Spectroscopy.		1
609	Surface Engineering of Standing Hollow Circular Cylinder ordered Arrays (HCCA) and Used as Platform for Excellent SERS Substrate. <b>2022</b> , 153425		0
608	Tip-Enhanced Stokes-Anti-Stokes Scattering from Carbyne.. <b>2022</b> ,		1
607	Trends in pharmaceutical analysis and quality control by modern Raman spectroscopic techniques. <b>2022</b> , 116623		1

- 606 A Molecular Study of Aspirin and Tenofovir Using Gold/Dextran Nanocomposites and Surface-Enhanced Raman Spectroscopy.. **2022**, 27, 0
- 605 Interfacial layer-by-layer self-assembly of PS nanospheres and Au@Ag nanorods for fabrication of broadband and sensitive SERS substrates.. **2022**, 620, 388-398 0
- 604 Table\_1.pdf. **2020**,
- 603 Facile synthesis of Au@palladium oxide nano-sunflowers for ultrasensitive surface-enhanced Raman scattering analysis.
- 602 Fast Tracking of Adulterants and Bacterial Contamination in Food via Raman and Infrared Spectroscopies: Paving the Way for a Healthy and Safe World.
- 601 Applications of Surface Wave Propagation. **2022**, 367-423
- 600 Bioinspired hollow g-C<sub>3</sub>N<sub>4</sub>-CuPc heterostructure with remarkable SERS enhancement and photosynthesis-mimicking property for theranostic applications. 0
- 599 Controlled synthesis of gold nanorod dimers with end-to-end configurations.. **2022**, 12, 13464-13471 0
- 598 An efficient dual functional Raman and Fluorescence detection platform achieved by controlling the electromagnetic enhanced field in three-dimensional Ag/ZnO composited arrays. 0
- 597 Salt-mediated, plasmonic field-field/field-lattice coupling-enhanced NIR-II photodynamic therapy using core-gap-shell gold nanopeanuts.. **2022**, 2
- 596 Surface-Enhanced Raman Spectroscopy Substrates for Food Safety and Quality Analysis.. **2022**, 3
- 595 Plasmonic Nanostructures Assembled by DNA Origami. **2022**, 135-154
- 594 Electrospun Gold Nanoprism/Poly(vinyl alcohol) Nanofibers for Flexible and Free-Standing Surface-Enhanced Raman Scattering Substrates. 2
- 593 Plasmonic Azobenzene Chemoreporter for Surface-Enhanced Raman Scattering Detection of Biothiols. **2022**, 12, 267
- 592 A Wide-Field Imaging Approach for Simultaneous Super-Resolution Surface-Enhanced Raman Scattering Bioimaging and Spectroscopy. 0
- 591 Properties and Applications of Graphene and Its Derivatives in Biosensors for Cancer Detection: A Comprehensive Review. **2022**, 12, 269 2
- 590 Fast, Economical, and Reproducible Sensing from a 2D Si Wire Array: Accurate Characterization by Single Wire Spectroscopy.. **2022**, 0
- 589 Statistical Strategy for Quantitative Evaluation of Plasmon-Enhanced Spectroscopy.

588	Laser-Driven Bubble Printing of Plasmonic Nanoparticle Assemblies onto Nonplasmonic Substrates. <b>2022</b> , 126, 7622-7629	0
587	SERS and Fluorescence-Active Multimodal Tessellated Scaffolds for Three-Dimensional Bioimaging.. <b>2022</b> ,	2
586	Highly Stable, Graphene-Wrapped, Petal-like, Gap-Enhanced Raman Tags. <b>2022</b> , 12, 1626	
585	Exploiting plasmonic enhancement with light-emitting diode excitation in surface-enhanced Raman scattering.	
584	Nanoengineering of conductively coupled metallic nanoparticles towards selective resonance modes within the near-infrared regime.. <b>2022</b> , 12, 7829	1
583	In Situ Raman Monitoring of Potential-Dependent Adlayer Structures on the Au(111)/Ionic Liquid Interface.. <b>2022</b> ,	1
582	Flash Colloidal Gold Nanoparticle Assembly in a Milli Flow System: Implications for Thermoplasmonic and for the Amplification of Optical Signals.	
581	Electrostatically Directed Long-Range Self-Assembly of Nucleotides with Cationic Nanoparticles to Form Multifunctional Bioplasmonic Networks.	
580	Electrostatically Directed Long-Range Self-Assembly of Nucleotides with Cationic Nanoparticles to Form Multifunctional Bioplasmonic Networks.. <b>2022</b> ,	2
579	Plasmon-Driven Oxidative Coupling of Aniline-Derivative Adsorbates: A Comparative Study of para-Ethynylaniline and para-Mercaptoaniline.	2
578	Noninvasive Diagnosis of Gastric Cancer Based on Breath Analysis with a Tubular Surface-Enhanced Raman Scattering Sensor.. <b>2022</b> ,	3
577	SERS Detection of Negatively Charged Molecules By Interface-induced Self-assembly of PDDA Modified Ag Nanoparticles. <b>2022</b> , 103381	0
576	Chiral Nanomaterials for Emerging Biological Effects. <b>2022</b> , 199-239	
575	Phonon transport in the gigahertz to terahertz range: Confinement, topology, and second sound. <b>2022</b> , 131, 180901	1
574	Polyhedral-Au@SiO <sub>2</sub> @Au CoreShell Nanoparticle Reveals a Broadband and Tunable Strong Local Field Enhancement. <b>2022</b> , 126, 8165-8176	1
573	A novel SERS-based rapid and sensitive assay for methidathion detection in various fruits. <b>2022</b> , 50, 100107	
572	Recent progress in the early detection of cancer based on CD44 biomarker; nano-biosensing approaches.. <b>2022</b> , 120593	3
571	A comprehensive overview on alkaline phosphatase targeting and reporting assays. <b>2022</b> , 465, 214567	2



570	Gold/platinum bimetallic nanomaterials for immunoassay and immunosensing. <b>2022</b> , 465, 214578	2
569	An improved surface enhanced Raman spectroscopic method using a paper-based grape skin-gold nanoparticles/graphene oxide substrate for detection of rhodamine 6G in water and food.. <b>2022</b> , 134702	1
568	Quantitative and recyclable SERS detection induced by tunable Raman internal standard from embedded silicon nanoparticles. <b>2022</b> , 366, 131989	0
567	Combined Experimental and Theoretical Investigation on Formation of Size-Controlled Silver Nanoclusters under Gas Phase. <b>2022</b> , 12, 282	1
566	Pharmaceutical Industry. <b>2022</b> , 313-337	
565	Localized plasmonic sensor for direct identifying lung and colon cancer from the blood. <b>2022</b> , 114372	2
564	SERS and EC-SERS detection of local anesthetic procaine using Pd loaded highly reduced graphene oxide nanocomposite substrate.. <b>2022</b> , 278, 121381	1
563	Tunable narrow-linewidth surface plasmon resonances of graphene-wrapped dielectric nanoparticles in the visible and near-infrared. <b>2022</b> , 115300	0
562	Monitoring and detection of antibiotic residues in animal derived foods: Solutions using aptamers. <b>2022</b> ,	2
561	ElectroOxidation of Nitroxide Radicals: AdsorptionMediated Charge Transfer Probed Using SERS and Potentiometry.	0
560	Trends in nanomaterial-based biosensors for viral detection.	
559	Nanoscale Imaging of Interstitial-dependent Optical Confinement through Near-Field Scanning Optical Microscopy.. <b>2022</b> , e202200108	
558	A Portable Sensing Platform Using an Upconversion-Based Nanosensor for Visual Quantitative Monitoring of Mesna.. <b>2022</b> ,	2
557	Research on the Comprehensive Evaluation Method for the Automatic Recognition of Raman Spectrum under Multidimensional Constraint.. <b>2022</b> ,	1
556	Mode-dependent energy exchange between near- and far-field through silicon-supported single silver nanorods	0
555	Large-area Co(OH) <sub>2</sub> Nanoflower Array Films Decorated with Ag Nanoparticles as Sensitive SERS Substrates.	
554	Controllable synthesis of Au nanostar with plasmonic hybridization properties and its sensitive molecular recognition applications. <b>2022</b> , 129, 112483	1
553	Quantitative detection of $\alpha$ -acid glycoprotein (AGP) level in blood plasma using SERS and CNN transfer learning approach. <b>2022</b> , 367, 132057	0

552	Lab on Fiber Technology: Toward Advanced and Multifunctional Point of Care Platforms for Precision Medicine. <b>2022</b> ,	
551	Laser Photochemical Nanostructuring of Silicon for Surface Enhanced Raman Spectroscopy. 2200114	1
550	A comparative study based on serum SERS spectra in and on the coffee ring for high precision breast cancer detection.	1
549	Enhancing electromagnetic field gradient in tip-enhanced Raman spectroscopy with a perfect radially polarized beam. <b>2022</b> , 30, 21377	
548	Broadband Nanoscale Surface-Enhanced Raman Spectroscopy by Multiresonant Nanolaminate Plasmonic Nanocavities on Vertical Nanopillars. 2202231	0
547	Combining Dense Au Nanoparticle Layers and 2D Surface-Enhanced Raman Scattering Arrays for the Identification of Mutant Cyanobacteria Using Machine Learning.	2
546	Highly Localized Photoelectrochemical Reactions at Nanostructured Interfaces. <b>2022</b> , 90, 122-128	
545	Effects of Near- and Far-Field Coupling on the Enhancement Factor of the Radiative Decay Rate of Multiple Emitters Near a Silver Nanoparticle Sphere.	2
544	Phosphonium-Based Ionic Liquid Significantly Enhances SERS of Cytochrome c on TiO <sub>2</sub> Nanotube Arrays.	0
543	Extremely confined gap plasmon modes: when nonlocality matters. <b>2022</b> , 13,	2
542	Spatiotemporal-Resolved Hyperspectral Raman Imaging of Plasmon-Assisted Reactions at Single Hotspots.	
541	Plasmonic metasurface assisted by thermally imprinted polymer nano-well array for surface enhanced Raman scattering.	
540	One-pot fabrication of Mo W S <sub>2</sub> alloy nanosheets as SERS substrates with highly Raman enhancement effect and long-term stability. <b>2022</b> , 121465	0
539	Molecular Electrochemistry. An overview of a cross-field: electrochemistry/spectroscopic/theoretical integrated approach. <b>2022</b> , 101072	1
538	An ultrasensitive and dual-recognition SERS biosensor based on Fe <sub>3</sub> O <sub>4</sub> @Au-Teicoplanin and aptamer functionalized Au@Ag nanoparticles for detection of Staphylococcus aureus. <b>2022</b> , 123648	3
537	Development of a portable SERS method for testing the antibiotic sensitivity of foodborne bacteria. <b>2022</b> , 198, 106496	0
536	Advanced sample preparation techniques for rapid surface-enhanced Raman spectroscopy analysis of complex samples. <b>2022</b> , 1675, 463181	1
535	Combined Effects of Emitter-Emitter and Emitter-Plasmonic Surface Separations Dictate Photoluminescence Enhancement in Plasmonic Field.	0

534	Ultra-high SERS Detection of Consumable Coloring Agents Using Plasmonic Gold Nanostars with High Aspect-ratio Spikes.	1
533	Controllable synthesis of gold nanoparticle dimers via site-selective growth.	2
532	SERS-based assay for multiplexed detection of cross-reactivity and persistence of antibodies against the spike of the native, P.1 and B.1.617.2 SARS-CoV-2 in non-hospitalised adults.	1
531	SERS nanotags for Folate Receptor $\alpha$ detection at the single cell level: discrimination of overexpressing cells and potential for live cell applications.	
530	Enhanced Electromagnetic Coupling in the Walnut-Shaped Nanostructure Array.	
529	Synergistic SERS enhancement and in situ monitoring of photocatalytic reactions in a plasmonic metal/ferroelectric hybrid system by the light-induced pyroelectric effect.	2
528	Improvement of SERS signal measured by portable Raman instrument using random sampling technique. <b>2022</b> , 60, 237-244	
527	DNA-Functionalized Gold Nanorods for Perioperative Optical Imaging and Photothermal Therapy of Triple-Negative Breast Cancer.	0
526	SERS Hotspot Engineering by Aerosol Self-Assembly of Plasmonic Ag Nanoaggregates with Tunable Interparticle Distance. 2201133	5
525	Optical suppression of energy barriers in single molecule-metal binding. <b>2022</b> , 8,	1
524	Insight into the Heterogeneity of Longitudinal Plasmonic Field in a Nanocavity Using an Intercalated Two-Dimensional Atomic Crystal Probe with a $\sim 7$ $\mu$ m Resolution.	1
523	Raman modes and mapping of graphene nanoparticles on Si and photonic crystal substrates. <b>2022</b> , 100163	1
522	Particle-in-Molybdenum Disulfide-Coated Cavity Structure with a Raman Internal Standard for Sensitive Raman Detection of Water Contaminants from Ions to $\leq 300$ nm Nanoplastics. 5815-5823	3
521	Super-resolution optical microscopy using cylindrical vector beams. <b>2022</b> ,	3
520	Opportunities and Challenges for Alternative Nanoplasmonic Metals: Magnesium and Beyond.	0
519	Conformational Selectivity of Merocyanine on Nanostructured Silver Films: Surface Enhanced Resonance Raman Scattering (SERRS) and Density Functional Theoretical (DFT) Study. 10,	0
518	Combination of Live Cell Surface-Enhanced Raman Scattering Imaging with Chemometrics to Study Intracellular Nanoparticle Dynamics. <b>2022</b> , 7, 1747-1756	2
517	Recent Advances in DNA Nanotechnology for Plasmonic Biosensor Construction. <b>2022</b> , 12, 418	2

516	Aerogel-Lined Capillaries for Raman Signal Gain of Aqueous Mixtures. <b>2022</b> , 22, 4388	
515	Simple Approach to Assess the Maximum Hot Spot SERS Enhancement Factors in Colloidal Dispersions of Gold Nanoparticle Aggregates.	0
514	Fabrication of optoplasmonic particles through electroless deposition and the application in SERS-based screening of nodule-involved lung cancer. <b>2022</b> , 121483	1
513	Highly Scalable, Wearable Surface-Enhanced Raman Spectroscopy. 2200054	4
512	Attomolar detection of 4-aminothiophenol by SERS using silver nanodendrites decorated with gold nanoparticles.	0
511	Optical trapping and manipulation for single-particle spectroscopy and microscopy.	1
510	Classification of Preeclamptic Placental Extracellular Vesicles Using Femtosecond Laser Fabricated Nanoplasmonic Sensors. <b>2022</b> , 7, 1698-1711	2
509	Plasmon-enhanced Raman spectroscopy of two-dimensional semiconductors. <b>2022</b> , 34, 333001	1
508	Plasmonic Photocatalysis: Activating Chemical Bonds through Light and Plasmon. 2200463	6
507	V-shaped substrate for surface and volume enhanced Raman spectroscopic analysis of microplastics. <b>2022</b> , 16,	1
506	Optical Metasurfaces for Energy Conversion.	4
505	Dynamic SPME/SERS Induced by Electric Field: Toward In Situ Monitoring of Pharmaceuticals and Personal Care Products.	1
504	Multiamperometric-SERS detection of melamine on gold screen-printed electrodes. <b>2022</b> , 918, 116478	0
503	Adiponectin-targeted SERS immunoassay biosensing platform for early detection of gestational diabetes mellitus. <b>2022</b> , 213, 114488	1
502	SERS/electrochemical dual-mode biosensor based on multi-functionalized molybdenum disulfide nanosheet probes and SERS-active Ag nanorods array electrodes for reliable detection of cancer-related miRNA. <b>2022</b> , 368, 132245	4
501	Single gold nanowire-based nanosensor for adenosine triphosphate sensing by using in-situ surface-enhanced Raman scattering technique. <b>2022</b> , 249, 123675	1
500	New Raman spectroscopic methods Application in forensic science. <b>2022</b> , 6, 100124	2
499	Emerging Microfluidic and Biosensor Technologies for Improved Cancer Theranostics. <b>2022</b> , 461-495	

- 498 Diazonium-Modification of Plasmonic Surfaces Formed by Laser Ablation. **2022**, 345-357
- 497 Metalated covalent organic frameworks: from synthetic strategies to diverse applications. 12
- 496 Screening of silver nanoparticles in antibacterial products by leveraging a silver nanowire membrane as a filter and amplifier.
- 495 Aggregative stability of colloidal 3D and 2D silver nanoparticles, stabilised by 11-mercaptopundecanoic acid, in the presence of singly charged cations. **2022**, 3-17
- 494 Optical Sensing by Metamaterials and Metasurfaces: From Physics to Biomolecule Detection. 2200500 1
- 493 Asymmetrical Spectral Continuum between Anti-Stokes and Stokes Scattering Revealed in Low-Frequency Surface-Enhanced Raman Spectroscopy. **2022**, 126, 11193-11200 1
- 492 Plasmonic reactivity of halogen thiophenols on gold nanoparticles studied by SERS and XPS. 1
- 491 An Improved POD Model for Fast Semi-Quantitative Analysis of Carbendazim in Fruit by Surface Enhanced Raman Spectroscopy. **2022**, 27, 4230 0
- 490 SERS detection of anthraquinone dyes: Using solvothermal silver colloid as the substrate. **2022**, 121646 0
- 489 Nanomaterials and Nanostructures Hand-In-Hand with Biology. **2022**, 12, 2317
- 488 All-Hot-Spot Bulk Surface-Enhanced Raman Scattering (SERS) Substrates: Attomolar Detection of Adsorbates with Designer Plasmonic Nanoparticles. 2
- 487 An Update on Sophisticated and Advanced Analytical Tools for Surface Characterization of Nanoparticles. **2022**, 102165 0
- 486 Cavity-Enhanced Raman Scattering from 2D Hybrid Perovskites. **2022**, 126, 11158-11164
- 485 Review Advances in Surface Plasmon Resonance Microscopy and Its Applications to Single Cells, Viruses, and Molecules.
- 484 Scaling Laws for Perovskite Nanolasers With Photonic and Hybrid Plasmonic Modes. 2200603 1
- 483 Recent developments in the use of gold and silver nanoparticles in biomedicine. 4
- 482 Advances in Biomedical Applications of Raman Microscopy and Data Processing: A Mini Review. 1-42
- 481 Enhancing Electrochemiluminescence Efficiency through Introducing Atomically Dispersed Ruthenium in Nickel-Based Metal-Organic Frameworks. 0

480	Plasmonic hot spots reveal local conformational transitions induced by DNA double-strand breaks. <b>2022</b> , 12,	0
479	Dual Role of Au nanoparticles in the Catalytic Formation of an Amorphous Polynuclear Peroxo Complex and Surface Enhanced Resonance Raman Scattering. <b>2022</b> , 7,	1
478	Determination of Benzocaine in Pharmaceutical Formulations by Indirect SERRS Assay Combined with Azo Coupling. <b>2022</b> , 27, 4492	
477	Quantum Mechanical Effects in High-Resolution Tip-Enhanced Raman Imaging.	1
476	Microfluidic Droplet-SERS Platform for Single-Cell Cytokine Analysis via a Cell Surface Bioconjugation Strategy.	2
475	Fiber optic Raman spectroscopy for the evaluation of disease state in Duchenne muscular dystrophy: An assessment using the mdx model and human muscle.	
474	Advances in photonic crystal fiber: sensing and supercontinuum generation applications. <b>2022</b> , 72, 102982	5
473	Designing and fabricating nanopolymer composites beyond traditional polymer nanocomposites toward fuel saving of automobile tires. <b>2022</b> , 101, 107584	0
472	Hybrid nanoassembly with two-tier host-guest architecture and regioselective enrichment capacity for repetitive SERS detection. <b>2022</b> , 369, 132359	1
471	Biomaterial actuator of M13 bacteriophage in dynamically tunable plasmonic coupling structure. <b>2022</b> , 369, 132326	0
470	Development of jellyfish-like ZnO@Ag substrate for sensitive SERS detection of melamine in milk. <b>2022</b> , 600, 154153	1
469	Rapid determination of pesticide residues in fruit and vegetable using Au@AgNPs decorated 2D Ni-MOF nanosheets as efficient surface-enhanced Raman scattering substrate. <b>2022</b> , 369, 132360	1
468	Development of SERS tags for human diseases screening and detection. <b>2022</b> , 470, 214711	0
467	Wafer-scale self-assembled 2.5D metasurface for efficient near-field and far-field electromagnetic manipulation. <b>2022</b> , 601, 154244	1
466	Raman-based detection of ciprofloxacin and its degradation in pharmaceutical formulations. <b>2022</b> , 250, 123719	1
465	Optofluidic analysis of monolayers with infrared microscopy. <b>2023</b> ,	
464	Au Nanoparticles on Superhydrophobic Scaffolds for Large-Area Surface-Enhanced Raman Scattering Substrates.	
463	Ultras-small-in-Nano: Why Size Matters. <b>2022</b> , 12, 2476	0

- 462 Utilization of coupled eigenmodes in Akiyama atomic force microscopy probes for bimodal multifrequency sensing.
- 461 Controllable fabrication of silver-deposited polyurethane acrylate nanopillar array film as a flexible surface-enhanced Raman scattering (SERS) substrate with high sensitivity and reproducibility. **2022**, 189, 1
- 460 Identification of Trace Polystyrene Nanoplastics Down to 50 nm by the Hyphenated Method of Filtration and Surface-Enhanced Raman Spectroscopy Based on Silver Nanowire Membranes. 2
- 459 Investigating the Origins of Bacterial SERS Responses to Antibiotics Observed in the Extracellular Matrix Liquid. **2022**, 121680
- 458 Self-assembly of gold nanoparticles by chitosan for improved epinephrine detection using a portable surface enhanced Raman scattering device. **2022**, 123752 0
- 457 Regulating the Work Function of Cu<sub>2</sub>O Films Via Crystal Facet Engineering with Enhanced Charge Transfer and Sers Activity.
- 456 Detection methodologies for microRNA biomarker profiling. **2022**, 217-240
- 455 Elevating Surface-Enhanced Infrared Absorption with Quantum Mechanical Effects of Plasmonic Nanocavities. **2022**, 22, 6083-6090 0
- 454 Formation of Gold Nanoparticle Self-Assembling Films in Various Polymer Matrices for SERS Substrates. **2022**, 15, 5197
- 453 Plasmonic Fluor-Enhanced Antigen Arrays for High-Throughput, Serological Studies of SARS-CoV-2. **2022**, 8, 1468-1479 0
- 452 Single-droplet surface-enhanced Raman scattering decodes the molecular determinants of liquid-liquid phase separation. **2022**, 13, 0
- 451 Phononic Cavity Optomechanics of Atomically Thin Crystal in Plasmonic Nanocavity. **2022**, 16, 12711-12719 0
- 450 Three-dimensional nanoframes with dual rims as nanoprobe for biosensing. **2022**, 13, 2
- 449 Strong and Elastic Membranes via Hydrogen Bonding Directed Self-Assembly of Atomically Precise Nanoclusters. **2022**, 18, 2201707 4
- 448 Surface-Enhanced Raman Scattering and Infrared Absorption with Plasmonic Ag-SiO<sub>2</sub> Nanocomposite Films for High-Sensitivity Analyte Sensing. **2022**, 5, 10867-10877
- 447 Quantitative determination of the electric field strength in a plasmon focus from ponderomotive energy shifts. **2022**, 11, 3687-3694
- 446 Au Nanoparticles Coated ZnO Film for Chemical Sensing by PIERS Coupled to SERS. **2022**, 9, 562 1
- 445 Flexible Two-Dimensional Vanadium Carbide MXene-Based Membranes with Ultra-Rapid Molecular Enrichment for Surface-Enhanced Raman Scattering. 0

- 444 Progress in the detection of cerebrospinal fluid by Raman spectroscopy.. **2022**, 18,
- 443 Metallic and Metal Oxides Nanoparticles for Sensing Food Pathogens: An Overview of Recent Findings and Future Prospects. **2022**, 15, 5374 2
- 442 Cardiovascular biomarkers in body fluids: progress and prospects in optical sensors. 0
- 441 Label-free SERS detection of prostate cancer combined with multivariate statistical algorithm. 1
- 440 Ultranarrow Linewidth Coupling Resonance in Flexible Plasmonic Nanopillar Array for Enhanced Biomolecule Detection. 2201011 1
- 439 Effect of Surface Curvature on Colloidal Stability of Silver Nanoparticles with Monomolecular and Mixed Thiol Ligand Layers in the Presence of Alkali Cations. 1
- 438 A Dual-Mode NADH Biosensor Based on Gold Nanostars Decorated CoFe<sub>2</sub> Metal-Organic Frameworks to Reveal Dynamics of Cell Metabolism. 1
- 437 Reversible Plasmonic Switch in a Molecular Oxidation Catalysis Process. **2022**, 12, 9908-9921
- 436 Quantitative SERS method on a colloid at the initial stage of rapid coagulation. **2022**, 137,
- 435 Thermally Stable Magneto-Plasmonic Nanoparticles for SERS with Tunable Plasmon Resonance. **2022**, 12, 2860 1
- 434 Visual Detection of COVID-19 from Materials Aspect. 1
- 433 Minimally invasive detection of cancer using metabolic changes in tumor-associated natural killer cells with Oncoimmune probes. **2022**, 13, 0
- 432 Synergistic Combination of Charge Carriers and Energy-Transfer Processes in Plasmonic Photocatalysis. **2022**, 14, 35734-35744 0
- 431 On-Demand Plasmon Nanoparticle-Embedded Laser-Induced Periodic Surface Structures (LIPSSs) on Silicon for Optical Nanosensing. 2201094 2
- 430 Recent Advances in Monitoring Stem Cell Status and Differentiation Using Nano-Biosensing Technologies. **2022**, 12, 2934 0
- 429 Optimization of Nanosubstrates toward Molecularly Surface-Functionalized Raman Spectroscopy. **2022**, 126, 13774-13784
- 428 Self-Assembled Au Nanoparticle Monolayers on Silicon in Two- and Three-Dimensions for Surface-Enhanced Raman Scattering Sensing. **2022**, 5, 11839-11851 0
- 427 Self-Assembled Gold Nano-Bipyramids for Solution-Based Surface-Enhanced Raman Spectroscopy Detection. **2022**, 5, 10421-10430



426	Investigation of SERS Frequency Fluctuations Relevant to Sensing and Catalysis.	2
425	Infrared and Raman spectroscopic analysis of functionalized graphene.	
424	Ionic surface propensity controls pH in nanopores. <b>2022,</b>	1
423	Detection of Polynitro Compounds at Low Concentrations by SERS Using Ni@Au Nanotubes. <b>2022,</b> 10, 306	0
422	Controlled assembly of gold nanoparticles in resonant gold nanoapertures for SERS applications.	1
421	A novel Apt-SERS platform for the determination of cardiac troponin I based on coral-like silver-modified magnetic substrate and BCA method. <b>2022,</b> 1225, 340253	0
420	Nesting of multiple polyhedral plasmonic nanoframes into a single entity. <b>2022,</b> 13,	2
419	Fabrication of periodic Si-Au nanocone-nanoparticle arrays for homogeneous enhancement factor in Raman scattering. <b>2022,</b>	
418	A review: Research progress of SERS-based sensors for agricultural applications. <b>2022,</b> 128, 90-101	2
417	Multifunctional plasmonic-magnetic nanoparticles for bioimaging and hyperthermia. <b>2022,</b> 189, 114484	4
416	Development of electroactive materials-based immunosensor towards early-stage cancer detection. <b>2022,</b> 471, 214723	1
415	Urinary analysis based on surface-enhanced Raman scattering for the noninvasive screening of lung cancer. <b>2022,</b> 3, 387-396	0
414	Hydrophobic expanded graphite-covered support to construct flexible and stable SERS substrate for sensitive determination by paste-sampling from irregular surfaces. <b>2022,</b> 282, 121708	1
413	Coupling enhanced SERS substrates and 1D dilated convolutional neural network: A new model to improve trace detection and identification. <b>2022,</b> 525, 128830	0
412	Effect of Zr contents and covering Ag layer on microstructure and SERS properties of Cu nanoparticles / Cu-Mo-Zr alloy films on flexible substrates. <b>2022,</b> 606, 154892	0
411	Unveiling facet effects in metallic nanoparticles to design an efficient plasmonic nanostructure. <b>2022,</b> 44, 22-28	0
410	Machine learning for vibrational spectroscopy. <b>2023,</b> 355-390	0
409	Double-sided plasmonic metasurface for simultaneous biomolecular separation and SERS detection. <b>2023,</b> 285, 121801	0

- 408 Real-time tracking of colloidal stability based on collision behaviors probed by surface-enhanced Raman spectroscopy. **2023**, 629, 864-872 ○
- 407 Aptamer-based approaches for sensing harmful synthetic and natural toxins. **2023**, 247-268 ○
- 406 Co<sub>2</sub> Activation and Dissociation Over Ag(111) Surfaces in the Presence of Surface Charge Density: A Static Gas Phase Dft Study. ○
- 405 Inter-coffee-ring effects boost rapid and highly reliable SERS detection of TPhT on a light-confining structure. **2022**, 12, 27321-27329 ○
- 404 Recent progresses on MOF-based optical sensors for VOCs sensing. 4
- 403 Differentiation and Identification Structural Similar Chemicals Using Sers Coupled with Different Chemometric Methods:The Example of Fluoroquinolones. ○
- 402 Emerging SERS biosensors for the analysis of cells and extracellular vesicles. ○
- 401 Self-Assembled Plasmonic Array Sensors for Cannabinoids. **2022**, ○
- 400 Emerging nanosensor platforms and machine learning strategies toward rapid, point-of-need small-molecule metabolite detection and monitoring. **2022**, 13, 11009-11029 ○
- 399 Label-free fibre optic Raman spectroscopy with bounded simplex-structured matrix factorization for the serial study of serum in amyotrophic lateral sclerosis. ○
- 398 Scalable two-tier protruding micro-/nano-optoelectrode arrays with hybrid optical-electrical modalities by hierarchical modular design. ○
- 397 Alternative methods of monitoring emerging contaminants in water: a review. ○
- 396 SERS probes and tags for biomedical applications. **2022**, 89-114 ○
- 395 Towards multi-molecular surface-enhanced infrared absorption using metal plasmonics. ○
- 394 Recent advances in antibiotic resistance diagnosis using SERS: focus on the Big 5 challenges. 1
- 393 A Facile Method to Fabricate Cactus-Like Ag Nps/Cuo/Cu<sub>2</sub>o Nanocomposites for Recyclable Sers Detection of Trace Carbendazim Residues. ○
- 392 Ultrasensitive Detection of Polycyclic Aromatic Hydrocarbons in Water Using 3D SERS Substrates produced in cold plasma. **2022**, ○
- 391 Determination of Uric Acid in Serum by Sers System Based on Vo-Mnco<sub>2</sub>o<sub>4</sub>/Ag Nanozyme. ○

- 390 Composition control of alloy nanoparticles consisting of bulk-immiscible Au and Rh metals via an ionic liquid/metal sputtering technique for improving their electrocatalytic activity. 0
- 389 Confined growth of Ag nanoflakes induced by LSPR-driven carrier transfer in periodic nanopatterned arrays. 0
- 388 Rapid quantification of thiocyanate in milk samples using a universal paper-based SERS sensor. 2
- 387 Regulating the work function of Cu<sub>2</sub>O films via crystal facet engineering with enhanced charge transfer and SERS activity. **2023**, 607, 155095 0
- 386 Fast Synthesis of Au Nanoparticles on Metal-Phenolic Network for Sweat SERS Analysis. **2022**, 12, 2977 0
- 385 Bimetallic Gold Nanostars Having High Aspect Ratio Spikes for Sensitive Surface-Enhanced Raman Scattering Sensing. **2022**, 5, 12562-12570 1
- 384 Clinical translation of gold nanoparticles. 2
- 383 Collective Mid-Infrared Vibrations in Surface-Enhanced Raman Scattering. **2022**, 22, 7254-7260 0
- 382 Electrospinning of Natural Biopolymers for Innovative Food Applications: A Review. 0
- 381 Graphene Chemo-Phononics for Biosensor Applications: An Interfacial Raman Transducer. 2200773 0
- 380 Machine learning and its applications for plasmonics in biology. **2022**, 3, 101042 1
- 379 Multiplex Sensing Based on Plasmonic Optics of Noble Metallic Nanostructures. 1-13 2
- 378 Overcoming the Diffraction Limit on the Size of Dielectric Resonators Using an Amplifying Medium. **2022**, 129, 0
- 377 Machine Learning-Driven 3D Plasmonic Cavity-in-Cavity Surface-Enhanced Raman Scattering Platform with Triple Synergistic Enhancement Toward Label-Free Detection of Antibiotics in Milk. 2204588 0
- 376 Theoretical quantum model of two-dimensional propagating plexcitons. **2022**, 157, 124103 0
- 375 Plasmonics in Bioanalysis: SPR, SERS, and Nanozymes. **2023**, 37-83 0
- 374 High Sensitive and Reusable SERS Substrate Based on Ag/SnO<sub>2</sub> Nanocone Arrayed Thin Film. 0
- 373 Fabrication of triangular Au/Ag nanoparticle arrays with sub-10 nm nanogap controlled by flexible substrate for Surface-enhanced Raman Scattering. 0

- 372 Differentiation and identification structural similar chemicals using SERS Coupled with different chemometric methods:the example of Fluoroquinolones. **2022**, 108023 ○
- 371 Electrochemically assisted wide area Raman with standard curved surface quantification method. **2022**, 121932 ○
- 370 A New Approach to Polymorphism in Molecular Crystals: Substrate-Mediated Structures Revealed by Lattice Phonon Dynamics. **2022**, 9, 2200815 ○
- 369 CRISPR/dCas9 Surface-enhanced Raman scattering for the detection of drug resistance gene macB. **2022**, 189, ○
- 368 DNA functionalized plasmonic nanoassemblies as SERS sensors for environmental analysis. ○
- 367 Novel Single-Particle Analytical Technique for Submicron Atmospheric Aerosols: Combined Use of Dark-Field Scattering and Surface-Enhanced Raman Spectroscopy. **2022**, 94, 13028-13035 1
- 366 Plasmonic/magnetic nanoarchitectures: From controllable design to biosensing and bioelectronic interfaces. **2022**, 114744 1
- 365 Biomimetic Transparent Nanoplasmonic Meshes by Reverse-Nanoimprinting for Bio-Interfaced Spatiotemporal Multimodal SERS Bioanalysis. 2204517 1
- 364 Chemical Interface Damping-Induced Attenuation of Surface Plasmon-Enhanced Raman Spectroscopy. **2022**, 9, 3000-3011 ○
- 363 Modular Micro Raman Reader Instrument for Fast SERS-Based Detection of Biomarkers. **2022**, 13, 1570 ○
- 362 Electrochemical tip-enhanced Raman Spectroscopy for microscopic studies of electrochemical interfaces. **2022**, 100576 1
- 361 Freeze Surface-Enhanced Raman Scattering Coupled with Thin-Layer Chromatography: Pesticide Detection and Quantification Case. **2022**, 94, 13507-13515 1
- 360 Model of the SARS-CoV-2 Virus for Development of a DNA-Modified, Surface-Enhanced Raman Spectroscopy Sensor with a Novel Hybrid Plasmonic Platform in Sandwich Mode. **2022**, 12, 768 1
- 359 SERS/NIR-II Optical Nanoprobes for Multidimensional Tumor Imaging from Living Subjects, Pathology, and Single Cells and Guided NIR-II Photothermal Therapy. 2208028 ○
- 358 Advanced Colloidal Sensors Enabled by an Out-of-Plane Lattice Resonance. 2200152 1
- 357 LIPSS for SERS: Metal Coated Direct Laser Written Periodic Nanostructures for Surface Enhanced Raman Spectroscopy. 2200233 1
- 356 Characterization of Aggregating Agents towards Sensitive Optical Detection of Tryptophan Using Lab-on-a-Chip. **2022**, 9, 648 ○
- 355 Molecularly imprinted core-shell Au nanoparticles for 2,4-dichlorophenoxyacetic acid detection in milk using surface-enhanced Raman spectroscopy. **2022**, 1227, 340333 ○

354	Near-infrared II plasmonic porous cubic nanoshells for in vivo noninvasive SERS visualization of sub-millimeter microtumors. <b>2022</b> , 13,	2
353	Construction of dense plasmonic hotspots on coarse Ag layer coated nylon fibers for ultrasensitive SERS sensing. 004051752211230	0
352	Large-Scale Functionalized Metasurface-Based SARS-CoV-2 Detection and Quantification.	2
351	Recent Advances in Silver Nanostructured Substrates for Plasmonic Sensors. <b>2022</b> , 12, 713	2
350	Nanoscale Synergetic Effects on Ag@TiO <sub>2</sub> Hybrid Substrate for Photoinduced Enhanced Raman Spectroscopy (PIERS) with Ultra-Sensitivity and Reusability. 2203861	0
349	Label-Free Plasmon-Enhanced Spectroscopic HER2 Detection for Dynamic Therapeutic Surveillance of Breast Cancer. <b>2022</b> , 94, 12762-12771	1
348	Optical Mie Scattering by DNA-Assembled Three-Dimensional Gold Nanoparticle Superlattice Crystals.	1
347	Chiral molecular imprinting-based SERS detection strategy for absolute enantiomeric discrimination. <b>2022</b> , 13,	5
346	Plasmonic phenomena in molecular junctions: principles and applications. <b>2022</b> , 6, 681-704	3
345	Imaging with Raman photons: a novel use of mixed-mode spectroscopy. <b>2022</b> , 3, 035007	0
344	Gold-Coated Flower-Like TiO <sub>2</sub> Microparticles Wrapped with Reduced Graphene Oxide for SERS Monitoring and Photocatalytic Degradation of Organic Pollutants.	2
343	Do We Really Need Quantum Mechanics to Describe Plasmonic Properties of Metal Nanostructures?. <b>2022</b> , 9, 3025-3034	3
342	Reflective FT-NIR and SERS Studies of HER-II Breast Cancer Biomarker Using Plasmonic-active Nanostructured Thin Film Immobilized Oriented Antibody.	0
341	Recent advances in electrochemical and optical sensing of the organophosphate chlorpyrifos: a review. 1-18	1
340	Molecularly Imprinted and Cladded Nanotags Enable Specific SERS Bioimaging of Tyrosine Phosphorylation.	0
339	Silver particles embedded in silicon: The fabrication process and their application in surface enhanced Raman scattering (SERS). <b>2022</b> , 155146	0
338	Detection of Dengue Virus 2 with Single Infected Mosquito Resolution Using Yeast Affinity Bionanofragments and Plasmonic SERS Nanoboxes.	1
337	Electrochemical additive manufacturing (ECAM): A new approach to fabricate metal nanostructures. <b>2022</b> ,	1

- 336 Super-resolution SERS spectral bioimaging. **2022**, ○
- 335 Analytic High-Order Energy Derivatives for Metal Nanoparticle-Mediated Infrared and Raman Scattering Spectra within the Framework of Quantum Mechanics/Molecular Mechanics Model with Induced Charges and Dipoles. ○
- 334 SERS spectroscopy with machine learning to analyze human plasma derived sEVs for coronary artery disease diagnosis and prognosis. ○
- 333 Highly selective SERS detection of acetylcholinesterase in human blood based on catalytic reaction. **2022**, 340495 ○
- 332 Silicon Nanostructures and Nanocomposites for Antibacterial and Theranostic Applications. **2022**, 113912 ○
- 331 Photoinduced Enhanced Raman Spectroscopy for the Ultrasensitive Detection of a Low-Cross-Section Chemical, Urea, Using Silver-Titanium Dioxide Nanostructures. ○
- 330 Nanoporous Gold Stacked Layers as Substrates for SERS Detection in Liquids or Gases with Ultralow Detection Limits and Long-Term Stability. ○
- 329 Rational Design of Surface-Enhanced Raman Scattering Substrate for Highly Reproducible Analysis. 1
- 328 Rapid Immobilization of Silver Nanoparticles via Amino-quinone Coatings Enables Surface-Enhanced Raman Scattering Detection. ○
- 327 Designing structures that maximize spatially averaged surface-enhanced Raman spectra. ○
- 326 Raman spectroelectrochemical determination of clopyralid in tap water. **2022**, 183, 108018 ○
- 325 Enabling spectral barcoding of SERS nanotags using gold nanostars. ○
- 324 Multiplexed molecular imaging with surface enhanced resonance Raman scattering nanoprobes reveals immunotherapy response in mice via multichannel image segmentation. ○
- 323 Ad aurum: tunable transfer of N-heterocyclic carbene complexes to gold surfaces. ○
- 322 Mussel-inspired PDA-based MIP-SERS sensor for the detection of trace MG in environmental water. ○
- 321 Experimental and theoretical evaluation of crystal facet exposure on the charge transfer and SERS activity of ZnO films. 1
- 320 Applications of Single-Molecule Vibrational Spectroscopic Techniques for the Structural Investigation of Amyloid Oligomers. **2022**, 27, 6448 ○
- 319 Micro-patterns of gold nanoparticles assembled by photovoltaic optoelectronic tweezers: application to plasmonic fluorescence enhancement. **2022**, 30, 41541 ○

318	Enhancing Detection Reproducibility of Surface-Enhanced Raman Scattering by Controlling Analytes under One Laser Spot. <b>2022</b> , 38, 13158-13165	0
317	Electrochemical Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy of Imidazole Ring Functionalized Monolayer on Smooth Gold Electrode. <b>2022</b> , 27, 6531	0
316	CO <sub>2</sub> activation and dissociation over Ag(111) surfaces in the presence of surface charge density: A static gas phase DFT study. <b>2022</b> , 155498	0
315	Computational Model for Electrochemical Surface-Enhanced Raman Scattering: Key Role of the Surface Charges and Synergy between Electromagnetic and Charge-Transfer Enhancement Mechanisms.	0
314	Mg-Doped ZnO Nanoparticles with Tunable Band Gaps for Surface-Enhanced Raman Scattering (SERS)-Based Sensing. <b>2022</b> , 12, 3564	0
313	Efficient SERS Response of Porous-ZnO-Covered Gold Nanoarray Chips to Trace Benzene/Volatile Organic Compounds. <b>2022</b> , 14, 47999-48010	0
312	Recent Advances in Exosomal miRNA Biosensing for Liquid Biopsy. <b>2022</b> , 27, 7145	0
311	The Potential Applications of Raman Spectroscopy in Kidney Diseases. <b>2022</b> , 12, 1644	0
310	Time Resolved Raman Scattering of Molecules: A Quantum Mechanics Approach with Stochastic Schroedinger Equation. <b>2022</b> , 126, 8088-8100	1
309	Pigments in Ancient Manuscripts and Paintings Brought to Life by Raman Spectroscopy: A Short Review. <b>2022</b> , 38, 1081-1093	0
308	Surface-Enhanced Raman Spectroscopy Chips Based on Silver Coated Gold Nanostars. <b>2022</b> , 12, 3609	2
307	Ultrasensitive Sandwich-Type SERS-Biosensor-Based Dual Plasmonic Superstructure for Detection of Tacrolimus in Patients. <b>2022</b> , 7, 3126-3134	1
306	Large Area Patterning of Highly Reproducible and Sensitive SERS Sensors Based on 10-nm Annular Gap Arrays. <b>2022</b> , 12, 3842	0
305	Tetraplex Immunophenotyping of Cell Surface Proteomes via Synthesized Plasmonic Nanotags and Portable Raman Spectroscopy. <b>2022</b> , 94, 14906-14916	1
304	Liquid Phase Infiltration of Block Copolymers. <b>2022</b> , 14, 4317	0
303	Combining Azimuthal and Polar Angle Resolved Shadow Mask Deposition and Nanosphere Lithography to Uncover Unique Nano-Crystals. <b>2022</b> , 12, 3464	0
302	Spatially-Localized Functionalization on Nanostructured Surfaces for Enhanced Plasmonic Sensing Efficacy. <b>2022</b> , 12, 3586	0
301	Enhanced Electromagnetic Coupling in the Walnut-Shaped Nanostructure Array. <b>2022</b> , 10, 445	0

300	Ultrasensitive Surface-Enhanced Raman Spectroscopy Detection by Porous Silver Supraparticles from Self-Lubricating Drop Evaporation. 2201998	0
299	Understanding chemical enhancements of surface-enhanced Raman scattering using a Raman bond model for extended systems.	0
298	Progress of Microfluidics Combined with SERS Technology in the Trace Detection of Harmful Substances. <b>2022</b> , 10, 449	2
297	Revealing the Wonder of Natural Photonics by Nonlinear Optics. <b>2022</b> , 7, 153	0
296	Quantitative and sensitive detection of alpha fetoprotein in serum by a plasmonic sensor. <b>2022</b> ,	1
295	Near-unity Raman factor of surface-enhanced Raman scattering in a waveguide.	0
294	Highly Excretable Gold Supraclusters for Translatable In Vivo Raman Imaging of Tumors.	0
293	SPP Standing Waves within Plasmonic Nanocavities.	0
292	Interior Hotspot Engineering in Ag/Au Bimetallic Nanocomposites by In Situ Galvanic Replacement Reaction for Rapid and Sensitive Surface-Enhanced Raman Spectroscopy Detection. <b>2022</b> , 23, 11741	0
291	Tailoring of the Distribution of SERS-Active Silver Nanoparticles by Post-Deposition Low-Energy Ion Beam Irradiation. <b>2022</b> , 15, 7721	1
290	The Advanced Applications of 2D Materials in SERS. <b>2022</b> , 10, 455	0
289	Recent Development of Multifunctional Nanocomposites Based on Bacterial Nanocellulose. <b>2023</b> , 75-105	0
288	Fabrication of Gyroid-Structured Metal/Semiconductor Nanoscaffolds with Ultrasensitive SERS Detection via Block Copolymer Templating. 2202280	1
287	SERS Monitored Kinetic Process of Gaseous Thiophenol Compound in Plasmonic MOF Nanoparticles.	0
286	Recent development of microfluidic biosensors for the analysis of antibiotic residues. <b>2022</b> , 157, 116797	1
285	Metabolomics and modelling approaches for systems metabolic engineering. <b>2022</b> , 15, e00209	1
284	Sculptured thin films: Overcoming the limitations of surface-enhanced Raman scattering substrates. <b>2022</b> , 12, 100322	1
283	Ultrafast and field-based detection of methamphetamine in hair with Au nanocake-enhanced Raman spectroscopy. <b>2022</b> , 1235, 340531	0



- 282 Hydrogen-assisted spark generation of silver nanoparticles: The effect of hydrogen content on the signal intensity in surface-enhanced Raman spectroscopy. **2023**, 167, 106090 3
- 281 3D plasmonic hot spots network via gold decorated deep micro-porous silicon exhibiting ultrahigh-SERS enhancement with application to explosives detection. **2023**, 374, 132813 0
- 280 A SERS microfluidic chip for ultrasensitive and simultaneous detection of SCCA and CYFRA21-1 in serum based on Au nanobowl arrays and hybridization chain reaction. **2023**, 375, 132894 0
- 279 CuO nanorods decorated gold nanostructures as an ultra-sensitive and recyclable SERS substrate. **2023**, 293, 126962 0
- 278 Silent region barcode particle arrays for ultrasensitive multiplexed SERS detection. **2023**, 219, 114804 0
- 277 Surface-enhanced Raman spectroscopy for the detection of microplastics. **2023**, 608, 155239 0
- 276 Au@Ag-labeled SERS lateral flow assay for highly sensitive detection of allergens in milk. **2023**, 12, 912-919 1
- 275 Core@satellite hierarchical nanostructures: assembly, plasmon coupling, and gap-selective surface-enhanced Raman scattering. 0
- 274 Advanced plasmonic technologies for multi-scale biomedical imaging. 1
- 273 Machine learning-augmented surface-enhanced spectroscopy toward next-generation molecular diagnostics. 2
- 272 Raman nanoprobes for in vivo medical applications. **2022**, 0
- 271 Surface-enhanced Raman spectroscopy for food quality and safety monitoring. **2023**, 31-54 0
- 270 Polymer nanocomposites for plasmonics: In situ synthesis of gold nanoparticles after additive manufacturing. **2023**, 117, 107869 0
- 269 Efficient manipulation of plasmonic modes in single symmetry-breaking Ag nanocube. **2023**, 611, 155650 0
- 268 EC-SERS detection of thiabendazole in apple juice using activated screen-printed electrodes. **2023**, 405, 134713 0
- 267 Multipolar Raman Scattering vs Interfacial Nanochemistry: Case of 4-Mercaptopyridine on Gold. **2022**, 144, 20561-20565 2
- 266 Spontaneous Synthesis of Ag Nanoparticles Decorated ZnAl Layered Double Hydroxides for Synergistically Improved SERS Activity. **2022**, 155701 0
- 265 Highly Sensitive and Reliable Internal-Standard Surface-Enhanced Raman Scattering Microneedles for Determination of Bacterial Metabolites as Infection Biomarkers in Skin Interstitial Fluid. 2

- 264 A Background-Free SERS Strategy for Sensitive Detection of Hydrogen Peroxide. **2022**, 27, 7918 0
- 263 Ordered Gold Nanocluster-Based Plasmonic Hotspot Arrays for SERS Detection of Single Molecules. 0
- 262 Nanotheranostic Strategies for Cancer Immunotherapy. 2200718 0
- 261 Angiotensin-Converting Enzyme 2-Based Biosensing Modalities and Devices for Coronavirus Detection. **2022**, 12, 984 0
- 260 Plasmon-Tuned Particles for the Amplification of Surface-Enhanced Raman Scattering from Analytes. 0
- 259 Targeted Suppression of Peptide Degradation in Ag-Based Surface-Enhanced Raman Spectra by Depletion of Hot Carriers. 2205080 0
- 258 LSPR Tunable Ag@PDMS SERS Substrate for High Sensitivity and Uniformity Detection of Dye Molecules. **2022**, 12, 3894 0
- 257 Magnetoplasmonics beyond Metals: Ultrahigh Sensing Performance in Transparent Conductive Oxide Nanocrystals. 2
- 256 Silver nanoparticle aggregates: Wavelength dependence of their SERS properties in the first transparency window of biological tissues. 0
- 255 Trends in Application of SERS Substrates beyond Ag and Au, and Their Role in Bioanalysis. **2022**, 12, 967 2
- 254 SERS chemical enhancement of 2,4,5-trichlorophenoxyacetic acid absorbed on Au<sub>20</sub>, its Au-Ag and Au-Cu bimetallic clusters: a DFT study. **2022**, 60, 641-651 0
- 253 A flexible surface-enhanced Raman Spectroscopy chip integrated with microlens. **2023**, 287, 122129 0
- 252 Versatile and high performance in-paper flexible SERS chips for simple and in-situ detection of methylene blue in river water and thiram on apple skin. **2022**, 124114 0
- 251 Surface-enhanced Raman spectroscopy with nanomaterials. **2022**, 0
- 250 Perspectives and Fabrication Challenges for Plasmon Based SERS Substrates. **2022**, 0
- 249 Raman spectra and DFT calculations of thiophenol molecules adsorbed on a gold surface. **2022**, 24, 29505-29511 0
- 248 Optically trapped SiO<sub>2</sub>@Au particle-dye hybrid-based SERS detection of Hg<sup>2+</sup> ions. 0
- 247 Amplification-free CRISPR/Cas detection technology: challenges, strategies, and perspectives. 1

- 246 Raman spectroscopy for profiling physical and chemical properties of atmospheric aerosol particles: A review. **2023**, 249, 114405 2
- 245 Sensitive SERS detection of pesticide residues in beverages based on an extraction integrated plasmonic platform. **2023**, 376, 133042 0
- 244 Facile fabrication of field deployable surface enhanced Raman scattering smart sand from sea sand. **2023**, 333, 133655 0
- 243 Equilibria of semi-volatile isothiazolinones between air and glass surfaces measured by gas chromatography and Raman spectroscopy. **2023**, 218, 114908 0
- 242 Dual functionalized Ag plasmonic sensor for colorimetric detection of Cr(III)/Hg(II)-carboxyl complexes: Mechanism and its sensing based on the interference of organic ligand. **2023**, 11, 109147 0
- 241 SERS-based immunosensor for E. coli contaminants detection in milk using silver-coated nanoporous silicon substrates. **2023**, 254, 124132 0
- 240 Identification of antibiotic residues in aquatic products with surface-enhanced Raman scattering powered by 1-D convolutional neural networks. **2023**, 289, 122195 0
- 239 Classification of Pericarpium Citri Reticulatae (Chenpi) age using surface-enhanced Raman spectroscopy. **2023**, 408, 135210 0
- 238 Gold nano-double-ring array sensor based on Fano resonance. **2023**, 530, 129172 0
- 237 Advancing Raman techniques for ocean applications. **2022**, 0
- 236 Templated synthesis of patterned gold nanoparticle assemblies for highly sensitive and reliable SERS substrates. 0
- 235 Interference Free HPLC-SERS for the Trace Analysis of Residual Furazolidones in the Aquaculture Sediment. **2022**, 10, 508 0
- 234 Recent advances in responsive membrane functionalization approaches and applications. 1-35 0
- 233 Enhancement of Magnetic Surface-Enhanced Raman Scattering Detection by Tailoring Fe<sub>3</sub>O<sub>4</sub>@Au Nanorod Shell Thickness and Its Application in the On-site Detection of Antibiotics in Water. **2022**, 7, 45493-45503 0
- 232 Optical and acoustic phonon temperature measurements using electron nanoprobe and electron energy loss spectroscopy. **2022**, 106, 0
- 231 Surface-enhanced Raman spectroscopy for emerging contaminant analysis in drinking water. **2023**, 17, 0
- 230 Surface-Enhanced Infrared Absorption Spectroscopy for Analyzing Nucleophilic Molecules Using Ethylene Glycol Decorated TiO<sub>2</sub> Nanosheet. **2022**, 14, 54313-54319 0
- 229 Combination of HPLC and SERS detection applied to the analysis of the trace content of amoxicillin in milk. **2022**, 123, 103473 0

- 228 Target-triggered double fluorescent biosensors for rapid and sensitive detection of long-chain perfluorinated compounds using DNA probe and lysozyme fiber. **2022**, 160496 ○
- 227 Detection of 1-OHPyr in human urine using SERS with injection under wet liquid-liquid self-assembled films of PCD-coated gold nanoparticles and deep learning. **2022**, 122238 ○
- 226 Facile Method to Fabricate Cactus-like Ag NPs/CuO/Cu<sub>2</sub>O Nanocomposites for Recyclable SERS Detection of Trace Carbendazim Residues. **2022**, 5, 17806-17818 ○
- 225 Aerosol Jet Printed Surface-Enhanced Raman Substrates: Application for High-Sensitivity Detection of Perfluoroalkyl Substances. ○
- 224 Plasmonic Ag/ZnO Nanoscale Villi in Microstructure Fibers for Sensitive and Reusable Surface-Enhanced Raman Scattering Sensing. ○
- 223 Profiling of Tumor Cell-Delivered Exosome by Surface Enhanced Raman Spectroscopy-Based Biosensor for Evaluation of Nasopharyngeal Cancer Radioresistance. 2202482 ○
- 222 Nanostructured-Based Optical Readouts Interfaced with Machine Learning for Identification of Extracellular Vesicles. 2202123 ○
- 221 Exploring Intensity Distributions and Sampling in SERS-Based Immunoassays. **2022**, 94, 17031-17038 ○
- 220 Plasmonic Cyclic Au Nanosphere Hexamers. 2205956 ○
- 219 Microfluidic SERS devices: brightening the future of bioanalysis. **2022**, 2, ○
- 218 Plasmon-Driven Catalytic Reactions in Optoplasmonic SandwichHybrid Structure. ○
- 217 Anisotropic metallic heterotrimer systems for an ultrahigh plasmonic-based improvement of hyper-Raman scattering signal. **2023**, 34, 095701 ○
- 216 Direct Modular Printing of Plasmonic Chemosensors. ○
- 215 Optomechanical Hot-Spots in Metallic NanorodPolymer Nanocomposites. ○
- 214 SERS-Based Immunoassay of Myocardial Infarction Biomarkers on a Microfluidic Chip with Plasmonic Nanostripe Microcones. **2022**, 14, 55414-55422 ○
- 213 Time-Resolved Monitoring of Electrochemical Reactions Using In Situ Stimulated Raman Spectroscopy. ○
- 212 Nanoporous Ag-Decorated Ag<sub>7</sub>O<sub>8</sub>NO<sub>3</sub> Micro-Pyramids for Sensitive Surface-Enhanced Raman Scattering Detection. **2022**, 10, 539 1
- 211 Plasmonic bound states in the continuum to tailor light-matter coupling. **2022**, 8, 2

- 210 Inducing SERS Activity at Graphitic Carbon Using Graphene-Covered Ag Nanoparticle Substrates: Spectroelectrochemical Analysis of a Redox-Active Adsorbed Anthraquinone . 0
- 209 Lossless enrichment of trace analytes in levitating droplets for multiphase and multiplex detection. **2022**, 13, 1
- 208 Ag decorated sea urchin-MoO<sub>3</sub> based hierarchical micro-nano structures as surface - enhanced Raman spectroscopy substrates for the detection of a nitrosamine industrial pollutant. **2022**, 33, 104995 0
- 207 Observation of Multi-Directional Energy Transfer in a Hybrid Plasmonic-Excitonic Nanostructure. 2209100 0
- 206 Rapid Detection of SARS-CoV-2 RNA in Human Nasopharyngeal Specimens Using Surface-Enhanced Raman Spectroscopy and Deep Learning Algorithms. 0
- 205 Cathodoluminescence Spectroscopy of Complex Dendritic Au Architectures for Application in Plasmon-Mediated Photocatalysis and as SERS Substrates. 2202236 0
- 204 SERS Resolving of the Significance of Acetate on the Enhanced Catalytic Activity of Nanozymes. **2022**, 94, 17930-17938 0
- 203 Ag Nanoparticles Decorated CuO@RF Core-Shell Nanowires for High-Performance Surface-Enhanced Raman Spectroscopy Application. **2022**, 27, 8460 0
- 202 Enhanced chiroptic properties of nanocomposites of achiral plasmonic nanoparticles decorated with chiral dye-loaded micelles. **2023**, 14, 1
- 201 Dense Arrays of Nanohelices: Raman Scattering from Achiral Molecules Reveals the Near-field Enhancements at Chiral Metasurfaces. 2209282 1
- 200 An experimental guide to in operando electrochemical Raman spectroscopy. 0
- 199 Engineered Two-Dimensional Nanostructures as SERS Substrates for Biomolecule Sensing: A Review. **2023**, 13, 102 1
- 198 Recent advances in droplet microfluidics for single-cell analysis. **2023**, 116932 0
- 197 A Combination System of a Thin Atomic Force Microscope and an Upright Raman Microscope for Position-Controllable Surface-Enhanced Raman Scattering. 0
- 196 Composite of 2D V<sub>2</sub>C MXene and Cellulose Nanocrystals for detection of analytes. 0
- 195 Can DFT Calculations Provide Useful Information for SERS Applications?. **2023**, 28, 573 0
- 194 Three-dimensional nanoporous Ag fabricated by a reduction-induced approach for sensitive surface-enhanced Raman scattering. **2023**, 102650 0
- 193 Innovative Vibrational Spectroscopy Research for Forensic Application. **2023**, 95, 167-205 0

- 192 An Overview of Nanomaterials: History, Fundamentals, and Applications. **2023**, 1-26 ○
- 191 Ag@C Decorated GaN Nanoflower enabled Super-stable, Single molecule level SERS substrate Integrated with Machine Learning for Multiple Analytes Identification. **2023**, 100305 ○
- 190 VSe<sub>2</sub>/Ox@Pd Sensor for Operando Self-Monitoring of Palladium-Catalyzed Reactions. ○
- 189 Microsphere-Supported Gold Nanoparticles for SERS detection of Malachite Green. ○
- 188 Combining physical vapor deposition structuration with dealloying for the creation of a highly efficient SERS platform. 14, 83-94 ○
- 187 Ion-Mediated Protein Stabilization on Nanoscopic Surfaces. ○
- 186 Monitoring hydrogen transport through graphene by in situ surface-enhanced Raman spectroscopy. ○
- 185 Deposition of hydrophilic Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> on a superhydrophobic ZnO nanorod array for improved surface-enhanced raman scattering performance. **2023**, 21, 1
- 184 3D plasmonic coral nanoarchitecture paper for label-free human urine sensing and deep learning-assisted cancer screening. **2023**, 224, 115076 1
- 183 Integrated technologies for continuous monitoring of organs-on-chips: Current challenges and potential solutions. **2023**, 224, 115057 ○
- 182 Precise regulation and control of hotspots in nanoparticle multilayer SERS substrates. **2023**, 187, 108371 ○
- 181 Light-trapping perforating microcone arrays for angle-insensitive and broadband SERS. **2023**, 615, 156271 ○
- 180 Extremely Ultranarrow Linewidth Based on Low-Symmetry Al Nanoellipse Metasurface. **2023**, 13, 92 ○
- 179 Nanoscale Investigation of DNA Demethylation in Leukemia Cells by Means of Ultrasensitive Vibrational Spectroscopy. **2023**, 23, 346 ○
- 178 Ultrasensitive Optical Fingerprinting of Biorelevant Molecules by Means of SERS-Mapping on Nanostructured Metasurfaces. **2023**, 13, 46 ○
- 177 Advanced mass spectrometric and spectroscopic methods coupled with machine learning for in vitro diagnosis. 20220038 1
- 176 Enhanced Sum Frequency Generation for Monolayers on Au Relative to Silica: Local Field Factors and SPR Effect. **2023**, 39, 659-667 ○
- 175 Characterization of Hyaluronic Acid-Coated PLGA Nanoparticles by Surface-Enhanced Raman Spectroscopy. **2023**, 24, 601 1

- 174 Nanostructures for In Situ SERS Analysis of High-Temperature Processes. **2023**, 11, 21 ○
- 173 Coffee Ring Fabrication and Its Application in Aflatoxin Detection Based on SERS. **2023**, 11, 22 ○
- 172 Real-Time Underwater Nanoplastic Detection beyond the Diffusion Limit and Low Raman Scattering Cross-Section via Electro-Photonic Tweezers. ○
- 171 Raman Spectroscopy on Brain Disorders: Transition from Fundamental Research to Clinical Applications. **2023**, 13, 27 ○
- 170 Spontaneous Scattering of Raman Photons from Cavity-QED Systems in the Ultrastrong Coupling Regime. **2022**, 129, ○
- 169 Capillary Tube Surface-Enhanced Raman Scattering Substrate and High-Sensitivity Molecule Detection. **2023**, 127, 378-383 ○
- 168 Electrochemical Synthesis, Magnetic and Optical Characterisation of FePd Dense and Mesoporous Nanowires. **2023**, 13, 403 ○
- 167 Biosensors for nucleic acid detection. **2023**, 173-233 ○
- 166 Plasmonic Dual-Gap Nanodumbbells for Label-Free On-Particle Raman DNA Assays. 2208250 ○
- 165 Gold nano-inks: synthesis and characterizations. **2023**, 53-73 ○
- 164 Cost-Effective and Facile Fabrication of a Tattoo Paper-Based SERS Substrate and Its Application in Pesticide Sensing on Fruit Surfaces. **2023**, 13, 486 ○
- 163 Chemical Enhancement and Quenching in Single-Molecule Tip-Enhanced Raman Spectroscopy. ○
- 162 Solution-Based Ultra-Sensitive Surface-Enhanced Raman Scattering Detection of the Toxin Bacterial Biomarker Pyocyanin in Biological Fluids Using Sharp-Branched Gold Nanostars. **2023**, 95, 2690-2697 ○
- 161 A Novel Strategy for Predicting Refractory Apical Periodontitis: Unlabeled Detection of Enterococcus Faecalis in Body Fluids Based on Surface-Enhanced Raman Spectroscopy and Artificial Intelligence Recognition Technology. ○
- 160 Charge transfer in the AgPolymerFullerene system of organic solar cells (OSCs) observed by surface-enhanced Raman spectroscopy: donor/acceptor concentration-dependent. ○
- 159 Tunable orientation of two-dimensional assembled Au octahedron superlattices in polymer films as flexible SERS substrates. ○
- 158 Halogen Bonding-Driven Reversible Self-Assembly of Plasmonic Colloidal Molecules. ○
- 157 Recent advances in nanomaterial-based optical biosensors for food safety applications: Ochratoxin-A detection, as case study. 1-43 ○

- 156 Coupling of plasmonic hot spots with shurikens for superchiral SERS-based enantiomer recognition. 0
- 155 Semiconductor SERS on Colourful Substrates with Fabry-Pérot Cavities. 0
- 154 Recent progress in nucleic acid detection with CRISPR. 1
- 153 Machine learning for nanoplasmonics. 0
- 152 Multi-wavelength lock-in spectroscopy for extracting perturbed spectral responses: molecular signatures in nanocavities. **2023**, 31, 5069 0
- 151 Polymeric composite sensors for food packaging applications. **2023**, 459-478 0
- 150 Semiconductor SERS on Colourful Substrates with Fabry-Pérot Cavities. 0
- 149 Cancer Stem Cells and Their Therapeutic Usage. **2023**, 0
- 148 Quantification of Amines in Refinery Process Water via Surface-Enhanced Raman Spectroscopy. **2023**, 37, 1881-1886 0
- 147 Highly Excretable Gold Supraclusters for Translatable In Vivo Raman Imaging of Tumors. 1
- 146 Computer-Aided Design and Analysis of Spectrally Aligned Hybrid Plasmonic Nanojunctions for SERS Detection of Nucleobases. 2201400 0
- 145 Engineering Rational SERS Nanotags for Parallel Detection of Multiple Cancer Circulating Biomarkers. **2023**, 11, 110 1
- 144 Femtosecond Bessel beam induced ladder-like LIPSS on trimetallic surface for SERS-based sensing of Tetra and PETN. **2023**, 616, 156561 0
- 143 Factor analysis of the time series of SERS spectra reveals water arrangement and surface plasmon changes in Ag nanoparticle systems. **2023**, 293, 122454 0
- 142 Multi-mode enhanced Raman scattering spectroscopy using aggregation-free hybrid metal/metal-oxide nanoparticles with intrinsic oxygen vacancies. **2023**, 11, 3334-3341 0
- 141 Magnesium: properties and rich chemistry for new material synthesis and energy applications. **2023**, 52, 2145-2192 0
- 140 SERS-based detection of 5-S-cysteinyldopamine as a novel biomarker of Parkinson's disease in artificial biofluids. **2023**, 148, 1848-1857 0
- 139 Interface-Dependent Selectivity in Plasmon-Driven Chemical Reactions. **2023**, 17, 3119-3127 0



- 138 Unraveling surface-enhanced Raman spectroscopy results through chemometrics and machine learning: principles, progress, and trends. ○
- 137 Cortisol Biosensors: From Sensing Principles to Applications. ○
- 136 Microstructured Ultra-black Thin Stainless-Steel Sheets Fabricated by Sagnac Interferometric-Based Ultrafast Laser Patterning. ○
- 135 Rapid and highly sensitive determination of unexpected diquat and paraquat in biological fluids by electro-enhanced SPME-SERS. **2023**, 382, 133504 ○
- 134 Toward Flexible Metal Semiconductor Sandwich Surface-Enhanced Raman scattering (SERS) sensors Pesticide Duplex Detection. **2023**, 229, 111865 ○
- 133 Technological aspects of manufacturing and analytical control of biological nanoparticles. **2023**, 64, 108122 ○
- 132 Label-free detection and discrimination of respiratory pathogens based on electrochemical synthesis of biomaterials-mediated plasmonic composites and machine learning analysis. **2023**, 227, 115178 ○
- 131 Size-controllable colloidal Ag nano-aggregates with long-time SERS detection window for on-line high-throughput detection. **2023**, 257, 124358 ○
- 130 Au@Ag nanodome-cones array substrate for efficient residue analysis of food samples by surface-enhanced Raman scattering. **2023**, 1259, 341159 ○
- 129 SERS detection for pesticide residue via a single-atom sites decoration strategy. **2023**, 621, 156832 ○
- 128 Toward room-temperature optical manipulation of small molecules. **2023**, 55, 100582 ○
- 127 Highly sensitive detection of thiram residues on fruit peel surfaces using a filter paper-based SERS sensor with AgNWs@ZIF-8. **2023**, 11, 109736 ○
- 126 Raman scattering-based optical sensing of chronic liver diseases. **2023**, 42, 103505 ○
- 125 Fabrication of flexible SERS substrate based on Au nanostars and PDMS for sensitive detection of Thiram residue in apple juice. **2023**, 297, 122721 ○
- 124 Laser ablation synthesis of bimetallic gold-palladium core@shell nanoparticles for trace detection of explosives. **2023**, 163, 109429 ○
- 123 Two-dimensional glass/p-ATP/Ag NPs as multifunctional SERS substrates for label-free quantification of uric acid in sweat. **2023**, 296, 122631 ○
- 122 Localized surface plasmon controlled chemistry at and beyond the nanoscale. **2023**, 4, 021301 ○
- 121 Targeted fentanyl screening utilizing electrochemical surface-enhanced Raman spectroscopy (EC-SERS) applied to authentic seized drug casework samples. **2023**, 34, 100492 ○

- 120 Developing highly reliable SERS substrates based on Ag grown on alumina nanomeshes anodized under 1 V for efficiently sensing Raman-active molecules. **2023**, 386, 133739 ○
- 119 Label-free detection of trace level zearalenone in corn oil by surface-enhanced Raman spectroscopy (SERS) coupled with deep learning models. **2023**, 414, 135705 ○
- 118 Atomic layer deposition assisted non-destructive strategy for cleaning Ag dendrites based SERS substrates. **2023**, 259, 124502 ○
- 117 Amplification-free detection of HBV DNA mediated by CRISPR-Cas12a using surface-enhanced Raman spectroscopy. **2023**, 1245, 340864 ○
- 116 3D flexible compositing resonant cavity system for high-performance SERS sensing. **2023**, 31, 6925 ○
- 115 Fabrication of plasmonic Au nanostructures on dielectric supports using 10 keV electron beam lithography and tests for SERS biodetection. **2023**, 41, 022202 ○
- 114 SERS for Detection of Proteinuria: A Comparison of Gold, Silver, Al Tape, and Silicon Substrates for Identification of Elevated Protein Concentration in Urine. **2023**, 23, 1605 ○
- 113 Spectral Analysis Methods for Improved Resolution and Sensitivity: Enhancing SPR and LSPR Optical Fiber Sensing. **2023**, 23, 1666 ○
- 112 Highly homogeneous bimetallic core-shell Au@Ag nanoparticles with embedded internal standard fabrication using a microreactor for reliable quantitative SERS detection. **2023**, 7, 1100-1109 ○
- 111 Chitosan coated papers as sustainable platforms for the development of surface-enhanced Raman scattering hydrophobic substrates. **2023**, 375, 121388 ○
- 110 Detection of Kidney Complications Relevant Concentrations of Ammonia Gas Using Plasmonic Biosensors: A Review. **2023**, 11, 119 ○
- 109 Toward a New Era of SERS and TERS at the Nanometer Scale: From Fundamentals to Innovative Applications. **2023**, 123, 1552-1634 3
- 108 Recent advances of Au@Ag core-shell SERS-based biosensors. **2023**, 3, 20220072 ○
- 107 Monolayer Iron Oxychloride with a Resonant Band Structure for Ultrasensitive Molecular Sensing. ○
- 106 Enhanced Photoluminescence of R6G Dyes from Metal Decorated Silicon Nanowires Fabricated through Metal Assisted Chemical Etching. **2023**, 16, 1386 1
- 105 The battle for the future of SERS TiN vs Au thin films with the same morphology. **2023**, 618, 156703 ○
- 104 High-Performance Hydrogel SERS Chips with Tunable Localized Surface Plasmon Resonance for Coordinated Electromagnetic Enhancement with Chemical Enhancement. **2023**, 11, ○
- 103 Thiol-End-Group Dendrons Decorated with Gold Nanoparticles Immobilized on Amino-Functionalized Graphene Oxide for SERS Detection. **2023**, 5, 1765-1774 ○

102	Ultra-trace SERS detection of cocaine and heroin using bimetallic goldSilver nanostars (BGNS-Ag). <b>2023</b> , 1251, 340956	0
101	Performance improvement of macroscopical film of gold nanoparticles as temperature sensor derived from its mono-crystallinity. <b>2023</b> , 460, 141835	0
100	Label-Free SERS for Rapid Differentiation of SARS-CoV-2-Induced Serum Metabolic Profiles in Non-Hospitalized Adults. <b>2023</b> , 95, 3638-3646	1
99	Distance-controlled surface-enhanced Raman spectroscopy of nanoparticles. <b>2023</b> , 48, 1454	0
98	Flexible Sweat Sensors: From Films to Textiles. <b>2023</b> , 8, 465-481	0
97	Writing Excellent Review Articles. <b>2023</b> , 17, 1723-1724	0
96	SERS Determination of Oxidative Stress Markers in Saliva Using Substrates with Silver Nanoparticle-Decorated Silicon Nanowires. <b>2023</b> , 13, 273	0
95	Interface Design of 3D Flower-like Ag@ZnSe Composites: SERS and Photocatalytic Performance. <b>2023</b> , 15, 11304-11313	0
94	Mechanisms of Photothermalization in Plasmonic Nanostructures: Insights into the Steady State. <b>2023</b> , 74,	0
93	In-situ/operando Raman techniques for in-depth understanding on electrocatalysis. <b>2023</b> , 461, 141939	0
92	Electroactive substrates for surface-enhanced Raman spectroscopy based on overgrown gold-nanoparticle arrays by electrodeposition on indium tin oxide. <b>2023</b> , 4, 1378-1388	0
91	High performance multi-purpose nanostructured thin films by inkjet printing: Au micro-electrodes and SERS substrates. <b>2023</b> , 5, 1970-1977	0
90	Ultrasensitive and Reliable SERS Chip Based on Facile Assembly of AgNPs on Porous LIG to Enhance the Local Electromagnetic Field. <b>2023</b> , 127, 4195-4202	0
89	Active Site Engineering on Plasmonic Nanostructures for Efficient Photocatalysis. <b>2023</b> , 17, 4193-4229	0
88	Silver-Based Surface Plasmon Sensors: Fabrication and Applications. <b>2023</b> , 24, 4142	0
87	Generalization of Self-Assembly Toward Differently Shaped Colloidal Nanoparticles for Plasmonic Superlattices. <b>2023</b> , 7,	0
86	Boosting electromagnetic enhancement for detection of non-adsorbing analytes on semiconductor SERS substrates. <b>2023</b> ,	0
85	Effect of Au Nanoparticle Agglomeration on SERS Signal Amplification. <b>2023</b> , 13, 812	0

- 84 Plasmon-mediated chemical reactions. **2023**, 3, ○
- 83 Electrochemical Dealloying Preparation and Morphology Evolution of Nanoporous Au with Enhanced SERS Activity. **2023**, 13, 489 ○
- 82 High spatial resolution ambient tip-enhanced (multipolar) Raman scattering. **2023**, 59, 3536-3541 ○
- 81 Flexible surface-enhanced Raman scattering substrates toward sampling approaches for on-site sensing and diagnosis applications. 1-34 ○
- 80 A Conceptual Overview of Surface-Enhanced Raman Scattering (SERS). **2023**, 18, 803-809 ○
- 79 Mineral pressure gauge based on lattice stability and plasmonic enhancement of cobalt titanate under high pressure. **2023**, 107, ○
- 78 Advantages and Disadvantages of Metal Nanoparticles. **2023**, 209-235 ○
- 77 Rapid and sensitive detection of superoxide dismutase in serum of the cervical cancer by 4-aminothiophenol-functionalized bimetallic Au-Ag nanoboxs array. 11, ○
- 76 Resonant Raman-Active Polymer Dot Barcodes for Multiplex Cell Mapping. **2023**, 17, 4800-4812 ○
- 75 Molecular Specificity in the Intense Surface-Enhanced Raman Scattering on Copper(II) 8-Hydroxyquinoline Microcrystals. **2023**, 127, 5169-5177 ○
- 74 Plasmonic Coupling of Au Nanoclusters on a Flexible MXene/Graphene Oxide Fiber for Ultrasensitive SERS Sensing. **2023**, 8, 1287-1298 ○
- 73 Optical Quantification of Metal Ions Using Plasmonic Nanostructured Microbeads Coated with Metal-Organic Frameworks and Ion-Selective Dyes. ○
- 72 Does the chemical contribution have a secondary role in SERS?. **2023**, 40, C78 ○
- 71 Specialty optical fibers for advanced sensing applications. **2023**, 2, 220025-220025 ○
- 70 Molecular switching on surfaces. **2023**, 100596 ○
- 69 Adsorption of tetracycline antibiotics to gold nanoparticles and feasibility of aptamer-based label-free colorimetric detection. ○
- 68 Plasmonic nanorod probes' journey inside plant cells for in vivo SERS sensing and multimodal imaging. ○
- 67 A hybrid plasmonic nanoprobe using polyvinylpyrrolidone-capped bimetallic silver-gold nanostars for highly sensitive and reproducible solution-based SERS sensing. **2023**, 148, 1786-1796 ○

- 66 Rapid detection and quantification of paracetamol and its major metabolites using surface enhanced Raman scattering. **2023**, 148, 1805-1814 ○
- 65 Active Enrichment of Nanoparticles for Ultra-Trace Point-of-Care COVID-19 Detection. **2023**, 95, 5316-5322 ○
- 64 Investigation of the Dependence of Electrocatalytic Activity of Copper and Palladium Nanoparticles on Morphology and Shape Formation. **2023**, 13, 621 ○
- 63 Gold Nanotriangle-Assembled Nanoporous Structures for Electric Field-Assisted Surface-Enhanced Raman Scattering Detection of Adenosine Triphosphate. **2023**, 8, 1280-1286 ○
- 62 Aluminum Foil vs. Gold Film: Cost-Effective Substrate in Sandwich SERS Immunoassays of Biomarkers Reveals Potential for Selectivity Improvement. **2023**, 24, 5578 ○
- 61 Chiral Metafilms and Surface Enhanced Raman Scattering for Enantiomeric Discrimination of Helicoid Nanoparticles. 2202991 ○
- 60 Optical Characterization of Plasmonic Indium Lattices Fabricated via Electrochemical Deposition. **2023**, 1, 753-758 ○
- 59 Optical biosensing of mycolic acid biomarker for TB diagnosis. **2023**, ○
- 58 Reversibly Modulating Plasmon-mediated Chemical Reaction via Electrode Potential on Reliable Copper Nanoelectrode. ○
- 57 Reversibly Modulating Plasmon-mediated Chemical Reaction via Electrode Potential on Reliable Copper Nanoelectrode. ○
- 56 Photochemical Reduction of Silver Nanoparticles on Diatoms. **2023**, 21, 185 ○
- 55 Scattering field enhanced biosensing based on sub-wavelength split-ring plasmonic cavity with high Q-factor. **2023**, ○
- 54 Promising Mass-Productive 4-Inch Commercial SERS Sensor with Particle in Micro-Nano Porous Ag/Si/Ag Structure Using in Auxiliary Diagnosis of Early Lung Cancer. 2207324 ○
- 53 Contribution of Subradiant Plasmon Resonance to Electromagnetic Enhancement in Resonant Raman with Fluorescence Examined by Single Silver Nanoparticle Dimers. **2023**, 127, 5886-5897 ○
- 52 A robust SERS calibration using a pseudo-internal intensity reference. ○
- 51 Prediction of Maple Syrup Quality from Maple Sap with a Plasmonic Tongue and Ordinal Mixed-Effects Modeling. **2023**, 3, 635-647 ○
- 50 Trends in digital detection for the quality and safety of herbs using infrared and Raman spectroscopy. 14, ○
- 49 Oxygen Evolution/Reduction Reaction Catalysts: From In Situ Monitoring and Reaction Mechanisms to Rational Design. ○

- 48 Challenges and opportunities for SERS in the infrared: materials and methods. **2023**, 5, 2132-2166 ○
- 47 Molecularly Imprinted Plasmonic Sensors as Nano-Transducers: An Effective Approach for Environmental Monitoring Applications. **2023**, 11, 203 ○
- 46 High-Speed Spectral Characterization of Single-Molecule SERS Fluctuations. **2023**, 17, 6675-6686 ○
- 45 NIR dye-encoded nanotags for biosensing: Role of functional groups on sensitivity and performance in SERRS-based LFA. ○
- 44 Metalloporphyrin nanoparticles for diverse 'theranostic' applications. **2023**, 489-507 ○
- 43 Fabrication of Vertically Aligned ZnO Nanorods Modified with Dense Silver Nanoparticles as Effective SERS Substrates. **2023**, 11, 210 ○
- 42 Recent advances of Raman spectroscopy for the analysis of bacteria. ○
- 41 miRNAs as Predictors of Barrier Integrity. **2023**, 13, 422 ○
- 40 Bridging the gap between lab and clinic for nanodiagnostics. ○
- 39 Direct Thermal Growth of Gold Nanoparticles on 3D Interweaved Hydrophobic Fibers as Ultrasensitive Portable SERS Substrates for Clinical Applications. ○
- 38 Challenges of the Effectiveness of Traumatic Brain Injuries Biomarkers in the Sports-Related Context. **2023**, 12, 2563 ○
- 37 High-sensitivity and throughput optical fiber SERS probes based on laser-induced fractional reaction method. **2023**, 48, 106410 ○
- 36 How Colloidal Lithography Limits the Optical Quality of Plasmonic Nanohole Arrays. **2023**, 39, 5222-5229 ○
- 35 Optical Detection of Cancer Cells Using Lab-on-a-Chip. **2023**, 13, 439 ○
- 34 Direct Virus Gene Detection: A CRISPR/dCas9-Mediated Surface-Enhanced Raman Scattering Strategy with Enzyme-Catalyzed Signal Amplification. **2023**, 95, 5927-5936 ○
- 33 Extending Plasmonic Enhancement Limit with Blocked Electron Tunneling by Monolayer Hexagonal Boron Nitride. ○
- 32 Confined Target-Triggered Hot Spots for In Situ SERS Analysis of Intranuclear Genotoxic Markers. **2023**, 95, 6312-6322 ○
- 31 Lab-on-a-DNA origami: nanoengineered single-molecule platforms. **2023**, 59, 4726-4741 ○

- 30 Tunable Nanomaterials of Intracellular Crystallization for In Situ Biolabeling and Biomedical Imaging. ○
- 29 Plasmonic Polarization Rotation in SERS Spectroscopy. **2023**, 23, 2530-2535 ○
- 28 Fabry-Pérot Cavity Control for Tunable Raman Scattering. ○
- 27 Metal Oxide-Supported Metal Catalysts for Electrocatalytic Oxygen Reduction Reaction: Characterization Methods, Modulation Strategies, and Recent Progress. ○
- 26 Vibrational Spectroscopy as a Tool for Bioanalytical and Biomonitoring Studies. **2023**, 24, 6947 ○
- 25 Seed-mediated synthesis of monodisperse plasmonic magnesium nanoparticles. ○
- 24 Inverse design in quantum nanophotonics: combining local-density-of-states and deep learning. **2023**, ○
- 23 Paper-based analytical devices for point-of-need applications. **2023**, 190, ○
- 22 Fabrication of nanostructured electrodes for electrochemical surface-enhanced Raman spectroscopy (E-SERS): a review. 1-15 ○
- 21 Transitioning surface-enhanced Raman spectroscopy ( SERS ) into the forensic drug chemistry and toxicology laboratory: Current and future perspectives. ○
- 20 Recent Advances in Biomolecular Detection Based on Aptamers and Nanoparticles. **2023**, 13, 474 ○
- 19 Self-Assembly of Silver Nanowire Films for Surface-Enhanced Raman Scattering Applications. **2023**, 13, 1358 ○
- 18 Application of SERS-based nanobiosensors to metabolite biomarkers of CKD. **2023**, 232, 115311 ○
- 17 Light-Triggered Reversible Tuning of Second-Harmonic Generation in a Photoactive Plasmonic Molecular Nanocavity. ○
- 16 SERS substrates based on rose petal replicas for the oxidative stress detection. **2023**, 626, 157281 ○
- 15 Wrinkle-bioinspired silver nanowire surface enhanced Raman scattering sensors for pesticide molecule detection. ○
- 14 Tunable Layered Gold Nanochips for High Sensitivity and Uniformity in SERS Detection. ○
- 13 An Accelerated Method for Investigating Spectral Properties of Dynamically Evolving Nanostructures. 3929-3938 ○

- 12 Plasmonic Double-Walled Nanoframes with Face-to-Face Nanogaps for Strong SERS Activity. ○
- 11 Electrochemical photonics: a pathway towards electrovariable optical metamaterials. **2023**, ○
- 10 Yolk-Shell Nanostars@Metal Organic Frameworks as Molecular Sieves for Optical Sensing and Catalysis. ○
- 9 Improving periodic uniformity of area-type LIPSS on Si wafer using a flat-top beam femtosecond NIR laser. **2023**, 62, 052001 ○
- 8 Laser-textured hybrid Tin-gold SERS platforms for ultra-trace analyte detection from contaminants. **2023**, 139, 113820 ○
- 7 Yolk-Shell Nanostars@Metal Organic Frameworks as Molecular Sieves for Optical Sensing and Catalysis. ○
- 6 Recent development of surface-enhanced Raman scattering for biosensing. **2023**, 21, ○
- 5 Seed-assisted electrodeposition of multilayer Au nanoparticles-assembled films for sensitive surface-enhanced Raman scattering detection. **2023**, 191, 108840 ○
- 4 Copper hydroxide nanowires assisted molecule enrichment for highly sensitive SERS detection. **2023**, 39, 102903 ○
- 3 Tuning the SERS Capabilities of ZnO Nanowire Arrays Functionalized with Au Quantum Dots for Highly Sensitive Detection of Methylene Blue. **2023**, 8, ○
- 2 Nanotechnologies for the Diagnosis and Treatment of SARS-CoV-2 and Its Variants. ○
- 1 Theoretical predictions and experimental verifications of SERS detection in colorants. **2023**, 13, 15086-15098 ○