

Olga Guselnikova

List of Publications by Citations

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71
papers

1,031
citations

20
h-index

28
g-index

78
ext. papers

1,343
ext. citations

7.1
avg, IF

4.75
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 71 | Magnetic polyurethane sponge for efficient oil adsorption and separation of oil from oil-in-water emulsions. <i>Separation and Purification Technology</i> , 2020 , 240, 116627 | 8.3 | 59 |
| 70 | Pretreatment-free selective and reproducible SERS-based detection of heavy metal ions on DTPA functionalized plasmonic platform. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 830-838 | 8.5 | 57 |
| 69 | Surface modification of Au and Ag plasmonic thin films via diazonium chemistry: Evaluation of structure and properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 516, 274-285 | 5.1 | 48 |
| 68 | Metal-organic framework (MOF-5) coated SERS active gold gratings: A platform for the selective detection of organic contaminants in soil. <i>Analytica Chimica Acta</i> , 2019 , 1068, 70-79 | 6.6 | 48 |
| 67 | Preparation and X-ray Structural Study of Dibenziodolium Derivatives. <i>Journal of Organic Chemistry</i> , 2015 , 80, 5783-8 | 4.2 | 35 |
| 66 | Helicene-SPP-Based Chiral Plasmonic Hybrid Structure: Toward Direct Enantiomers SERS Discrimination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1555-1562 | 9.5 | 35 |
| 65 | Smart, Piezo-Responsive Polyvinylidene fluoride/Polymethylmethacrylate Surface with Triggerable Water/Oil Wettability and Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37461-37469 | 9.5 | 33 |
| 64 | Precise cancer detection via the combination of functionalized SERS surfaces and convolutional neural network with independent inputs. <i>Sensors and Actuators B: Chemical</i> , 2020 , 308, 127660 | 8.5 | 32 |
| 63 | Unprecedented plasmon-induced nitroxide-mediated polymerization (PI-NMP): a method for preparation of functional surfaces. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12414-12419 | 13 | 30 |
| 62 | Large-Scale, Ultrasensitive, Highly Reproducible and Reusable Smart SERS Platform Based on PNIPAm-Grafted Gold Grating. <i>ChemNanoMat</i> , 2017 , 3, 135-144 | 3.5 | 29 |
| 61 | Express and portable label-free DNA detection and recognition with SERS platform based on functional Au grating. <i>Applied Surface Science</i> , 2019 , 470, 219-227 | 6.7 | 29 |
| 60 | SERS platform for detection of lipids and disease markers prepared using modification of plasmonic-active gold gratings by lipophilic moieties. <i>Sensors and Actuators B: Chemical</i> , 2018 , 265, 182-192 | 8.5 | 28 |
| 59 | Organic-inorganic hybrid nanoparticles controlled delivery system for anticancer drugs. <i>International Journal of Pharmaceutics</i> , 2017 , 526, 380-390 | 6.5 | 26 |
| 58 | Label-free surface-enhanced Raman spectroscopy with artificial neural network technique for recognition photoinduced DNA damage. <i>Biosensors and Bioelectronics</i> , 2019 , 145, 111718 | 11.8 | 25 |
| 57 | Plasmon Catalysis on Bimetallic Surface Selective Hydrogenation of Alkynes to Alkanes or Alkenes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26613-26622 | 3.8 | 25 |
| 56 | Fast and All-Optical Hydrogen Sensor Based on Gold-Coated Optical Fiber Functionalized with Metal-Organic Framework Layer. <i>ACS Sensors</i> , 2019 , 4, 3133-3140 | 9.2 | 24 |
| 55 | Surface Plasmon-Polariton: A Novel Way To Initiate Azide-Alkyne Cycloaddition. <i>Langmuir</i> , 2019 , 35, 2023-2032 | 23 | 23 |

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| 54 | Plasmon-Induced Water Splitting-through Flexible Hybrid 2D Architecture up to Hydrogen from Seawater under NIR Light. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28110-28119 | 9.5 | 22 |
| 53 | Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600886 | 4.6 | 21 |
| 52 | Plasmon-Polariton Induced, From Surface RAFT Polymerization, as a Way toward Creation of Grafted Polymer Films with Thickness Precisely Controlled by Self-Limiting Mechanism. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801042 | 4.6 | 21 |
| 51 | Can Plasmon Change Reaction Path? Decomposition of Unsymmetrical Iodonium Salts as an Organic Probe. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5770-5776 | 6.4 | 20 |
| 50 | Plasmon-Assisted Activation and Grafting by Iodonium Salt: Functionalization of Optical Fiber Surface. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800725 | 4.6 | 20 |
| 49 | Preparation of Selective and Reproducible SERS Sensors of Hg Ions via a Sunlight-Induced Thiol-Yne Reaction on Gold Gratings. <i>Sensors</i> , 2019 , 19, | 3.8 | 19 |
| 48 | Dual Mode Chip Enantioselective Express Discrimination of Chiral Amines via Wettability-Based Mobile Application and Portable Surface-Enhanced Raman Spectroscopy Measurements. <i>ACS Sensors</i> , 2019 , 4, 1032-1039 | 9.2 | 19 |
| 47 | Synthesis, Characterization, and Antimicrobial Activity of Near-IR Photoactive Functionalized Gold Multibranched Nanoparticles. <i>ChemistryOpen</i> , 2017 , 6, 254-260 | 2.3 | 18 |
| 46 | Enantioselective SERS sensing of pseudoephedrine in blood plasma biomatrix by hierarchical mesoporous Au films coated with a homochiral MOF. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113109 | 11.8 | 18 |
| 45 | Spatially selective modification of PLLA surface: From hydrophobic to hydrophilic or to repellent. <i>Applied Surface Science</i> , 2017 , 397, 226-234 | 6.7 | 17 |
| 44 | Tuning of PEDOT:PSS Properties Through Covalent Surface Modification. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 378-387 | 2.6 | 16 |
| 43 | The convenient preparation of stable aryl-coated zerovalent iron nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1192-8 | 3 | 15 |
| 42 | Plasmon-active optical fiber functionalized by metal organic framework for pesticide detection. <i>Talanta</i> , 2020 , 208, 120480 | 6.2 | 15 |
| 41 | Application of a 2D Molybdenum Telluride in SERS Detection of Biorelevant Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47774-47783 | 9.5 | 14 |
| 40 | Functional and Switchable Amphiphilic PMMA Surface Prepared by 3D Selective Modification. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701182 | 4.6 | 12 |
| 39 | Diazonium chemistry surface treatment of piezoelectric polyhydroxybutyrate scaffolds for enhanced osteoblastic cell growth. <i>Applied Materials Today</i> , 2020 , 20, 100758 | 6.6 | 12 |
| 38 | Plasmon-assisted grafting of anisotropic nanoparticles - spatially selective surface modification and the creation of amphiphilic SERS nanoprobe. <i>Nanoscale</i> , 2020 , 12, 14581-14588 | 7.7 | 11 |
| 37 | Conceptual Developments of Aryldiazonium Salts as Modifiers for Gold Colloids and Surfaces. <i>Langmuir</i> , 2021 , 37, 8897-8907 | 4 | 10 |

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| 36 | Rapid SERS-based recognition of cell secretome on the folic acid-functionalized gold gratings. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 3309-3319 | 4.4 | 8 |
| 35 | Multiresponsive Wettability Switching on Polymer Surface: Effect of Surface Chemistry and/or Morphology Tuning. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801937 | 4.6 | 8 |
| 34 | Reversible switching of PEDOT:PSS conductivity in the dielectric-conductive range through the redistribution of light-governing polymers.. <i>RSC Advances</i> , 2018 , 8, 11198-11206 | 3.7 | 8 |
| 33 | Hydrophilic/hydrophobic surface modification impact on colloid lithography: Schottky-like defects, dislocation, and ideal distribution. <i>Applied Surface Science</i> , 2018 , 433, 443-448 | 6.7 | 8 |
| 32 | Versatile and Scalable Icephobization of Airspace Composite by Surface Morphology and Chemistry Tuning. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 977-986 | 4.3 | 8 |
| 31 | Smart recycling of PET to sorbents for insecticides through in situ MOF growth. <i>Applied Materials Today</i> , 2021 , 22, 100910 | 6.6 | 8 |
| 30 | Chemical modification of gold surface via UV-generated aryl radicals derived 3,5-bis(trifluoromethyl)phenyliodonium salt. <i>Progress in Organic Coatings</i> , 2019 , 136, 105211 | 4.8 | 7 |
| 29 | Homochiral metal-organic frameworks functionalized SERS substrate for atto-molar enantio-selective detection. <i>Applied Materials Today</i> , 2020 , 20, 100666 | 6.6 | 6 |
| 28 | Preparation and structure of phenolic arylidonium salts. <i>Chemical Communications</i> , 2018 , 54, 10363-10366 | 3.6 | 6 |
| 27 | Plasmon-assisted MXene grafting: tuning of surface termination and stability enhancement. <i>2D Materials</i> , | 5.9 | 6 |
| 26 | Beyond common analytical limits of radicals detection using the functional SERS substrates. <i>Sensors and Actuators B: Chemical</i> , 2019 , 300, 127015 | 8.5 | 5 |
| 25 | Plasmon-assisted self-cleaning sensor for the detection of organosulfur compounds in fuels. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14181-14187 | 7.1 | 5 |
| 24 | Detection of trace amounts of insoluble pharmaceuticals in water by extraction and SERS measurements in a microfluidic flow regime. <i>Analyst, The</i> , 2021 , 146, 3686-3696 | 5 | 5 |
| 23 | New Trends in Nanoarchitected SERS Substrates: Nanospaces, 2D Materials, and Organic Heterostructures.. <i>Small</i> , 2022 , e2107182 | 11 | 5 |
| 22 | Single Plasmon-Active Optical Fiber Probe for Instantaneous Chiral Detection. <i>ACS Sensors</i> , 2020 , 5, 50-56.2 | 5.2 | 4 |
| 21 | Flexible Conductive Polymer Film Grafted with Azo-Moieties and Patterned by Light Illumination with Anisotropic Conductivity. <i>Polymers</i> , 2019 , 11, | 4.5 | 4 |
| 20 | Plasmon-assisted click chemistry at low temperature: an inverse temperature effect on the reaction rate. <i>Chemical Science</i> , 2021 , 12, 5591-5598 | 9.4 | 4 |
| 19 | Vapor Annealing and Colloid Lithography: An Effective Tool To Control Spatial Resolution of Surface Modification. <i>Langmuir</i> , 2018 , 34, 12861-12869 | 4 | 4 |

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| 18 | First examples of arenediazonium 4-dodecylbenzenesulfonates: synthesis and characterization. <i>Russian Chemical Bulletin</i> , 2014 , 63, 289-290 | 1.7 | 3 |
| 17 | Phase engineering of dual active 2D Bi ₂ O ₃ -based nanocatalysts for alkaline hydrogen evolution reaction electrocatalysis. <i>Journal of Materials Chemistry A</i> , | 13 | 3 |
| 16 | Taking the power of plasmon-assisted chemistry on copper NPs: Preparation and application of COFs nanostructures for CO ₂ sensing in water. <i>Microporous and Mesoporous Materials</i> , 2020 , 309, 110577-3 | 5.3 | 3 |
| 15 | Reversible wettability switching of piezo-responsive nanostructured polymer fibers by electric field. <i>Chemical Papers</i> , 2021 , 75, 191-196 | 1.9 | 3 |
| 14 | Establishing plasmon contribution to chemical reactions: alkoxyamines as a thermal probe. <i>Chemical Science</i> , 2021 , 12, 4154-4161 | 9.4 | 3 |
| 13 | A breath of fresh air for atmospheric CO ₂ utilisation: a plasmon-assisted preparation of cyclic carbonate at ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8462-8469 | 13 | 3 |
| 12 | Covalent functionalization of Ti ₃ C ₂ T MXene flakes with Gd-DTPA Complex for Stable and Biocompatible MRI Contrast Agent. <i>Chemical Engineering Journal</i> , 2022 , 136939 | 14.7 | 3 |
| 11 | SERS and advanced chemometrics - Utilization of Siamese neural network for picomolar identification of beta-lactam antibiotics resistance gene fragment.. <i>Analytica Chimica Acta</i> , 2022 , 1192, 339373 | 6.6 | 2 |
| 10 | Plasmon-Assisted Transfer Hydrogenation: Kinetic Control of Reaction Chemoselectivity through a Light Illumination Mode. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10318-10325 | 3.8 | 2 |
| 9 | Chiroplasmon-active optical fiber probe for environment chirality estimation. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130122 | 8.5 | 2 |
| 8 | Revealing the activity of Co ₃ Mo ₃ N and Co ₃ Mo ₃ N _{0.5} as electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 855-861 | 13 | 1 |
| 7 | Synergetic effect of UiO-66 and plasmonic AgNPs on PET waste support towards degradation of nerve agent simulant. <i>Chemical Engineering Journal</i> , 2021 , 133450 | 14.7 | 1 |
| 6 | The covalent functionalization of few-layered MoTe ₂ thin films with iodonium salts. <i>Materials Today Chemistry</i> , 2022 , 24, 100846 | 6.2 | 1 |
| 5 | Surface modification of carbon dots with tetraalkylammonium moieties for fine tuning their antibacterial activity.. <i>Materials Science and Engineering C</i> , 2022 , 112697 | 8.3 | 0 |
| 4 | Polymer waste surgical masks decorated by superhydrophobic metal-organic frameworks towards oil spills clean-up. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107105 | 6.8 | 0 |
| 3 | Quantitative detection of α -acid glycoprotein (AGP) level in blood plasma using SERS and CNN transfer learning approach. <i>Sensors and Actuators B: Chemical</i> , 2022 , 367, 132057 | 8.5 | 0 |
| 2 | Iodonium Salts as Reagents for Surface Modification: From Preparation to Reactivity in Surface-Assisted Transformations. <i>Physical Chemistry in Action</i> , 2022 , 79-96 | | 0 |
| 1 | Periodical amphiphilic surface with chemical patterning for micelles immobilization and analysis. <i>Applied Surface Science</i> , 2022 , 586, 152833 | 6.7 | |

