

Olga Guselnikova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
70	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
69	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
68	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
67	Periodical amphiphilic surface with chemical patterning for micelles immobilization and analysis. <i>Applied Surface Science</i> , 2022 , 586, 152833	6.7	
66	The covalent functionalization of few-layered MoTe ₂ thin films with iodonium salts. <i>Materials Today Chemistry</i> , 2022 , 24, 100846	6.2	1
65	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
64	New Trends in Nanoarchitected SERS Substrates: Nanospaces, 2D Materials, and Organic Heterostructures.. <i>Small</i> , 2022 , e2107182	11	5
63	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
62	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
61	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
60	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
59	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
58	Reversible wettability switching of piezo-responsive nanostructured polymer fibers by electric field. <i>Chemical Papers</i> , 2021 , 75, 191-196	1.9	3
57	Smart recycling of PET to sorbents for insecticides through in situ MOF growth. <i>Applied Materials Today</i> , 2021 , 22, 100910	6.6	8
56	Establishing plasmon contribution to chemical reactions: alkoxyamines as a thermal probe. <i>Chemical Science</i> , 2021 , 12, 4154-4161	9.4	3
55	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

54	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
53	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
52	Conceptual Developments of Aryldiazonium Salts as Modifiers for Gold Colloids and Surfaces. <i>Langmuir</i> , 2021 , 37, 8897-8907	4	10
51	Chiroplasmon-active optical fiber probe for environment chirality estimation. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130122	8.5	2
50	Homochiral metal-organic frameworks functionalized SERS substrate for atto-molar enantio-selective detection. <i>Applied Materials Today</i> , 2020 , 20, 100666	6.6	6
49	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
48	Plasmon-assisted grafting of anisotropic nanoparticles - spatially selective surface modification and the creation of amphiphilic SERS nanoprobos. <i>Nanoscale</i> , 2020 , 12, 14581-14588	7.7	11
47	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
46	Plasmon-active optical fiber functionalized by metal organic framework for pesticide detection. <i>Talanta</i> , 2020 , 208, 120480	6.2	15
45	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
44	Single Plasmon-Active Optical Fiber Probe for Instantaneous Chiral Detection. <i>ACS Sensors</i> , 2020 , 5, 50-56.2	5.2	4
43	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
42	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
41	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
40	Diazonium chemistry surface treatment of piezoelectric polyhydroxybutyrate scaffolds for enhanced osteoblastic cell growth. <i>Applied Materials Today</i> , 2020 , 20, 100758	6.6	12
39	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
38	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
37	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

36	Surface Plasmon-Polariton: A Novel Way To Initiate Azide-Alkyne Cycloaddition. <i>Langmuir</i> , 2019 , 35, 2023-2032	23
35	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
34	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
33	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
32	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
31	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
30	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
29	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
28	Flexible Conductive Polymer Film Grafted with Azo-Moieties and Patterned by Light Illumination with Anisotropic Conductivity. <i>Polymers</i> , 2019 , 11,	4.5 4
27	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
26	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
25	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
24	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
23	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
22	Functional and Switchable Amphiphilic PMMA Surface Prepared by 3D Selective Modification. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701182	4.6 12
21	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
20	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
19	Plasmon-Assisted Activation and Grafting by Iodonium Salt: Functionalization of Optical Fiber Surface. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800725	4.6 20

18	Preparation and structure of phenolic arylidonium salts. <i>Chemical Communications</i> , 2018 , 54, 10363-10366	3.6	6
17	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
16	Vapor Annealing and Colloid Lithography: An Effective Tool To Control Spatial Resolution of Surface Modification. <i>Langmuir</i> , 2018 , 34, 12861-12869	4	4
15	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
14	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
13	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
12	Synthesis, Characterization, and Antimicrobial Activity of Near-IR Photoactive Functionalized Gold Multibranching Nanoparticles. <i>ChemistryOpen</i> , 2017 , 6, 254-260	2.3	18
11	Organic-inorganic hybrid nanoparticles controlled delivery system for anticancer drugs. <i>International Journal of Pharmaceutics</i> , 2017 , 526, 380-390	6.5	26
10	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
9	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
8	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
7	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
6	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
5	Preparation and X-ray Structural Study of Dibenziodolium Derivatives. <i>Journal of Organic Chemistry</i> , 2015 , 80, 5783-8	4.2	35
4	The convenient preparation of stable aryl-coated zerovalent iron nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1192-8	3	15
3	First examples of arenediazonium 4-dodecylbenzenesulfonates: synthesis and characterization. <i>Russian Chemical Bulletin</i> , 2014 , 63, 289-290	1.7	3
2	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
1	Plasmon-assisted MXene grafting: tuning of surface termination and stability enhancement. <i>2D Materials</i> ,	5.9	6

