

Yevgeniya Kalachyova

List of Publications by Year in descending order

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papers

828
citations

471371

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times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Silver Grating and Nanoparticles Grafting for LSP-SPP Coupling and SERS Response Intensification. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10569-10577.	1.5	69
2	Surface Plasmon Polaritons on Silver Gratings for Optimal SERS Response. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9506-9512.	1.5	67
3	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.	4.0	65
4	Helicene-SPP-Based Chiral Plasmonic Hybrid Structure: Toward Direct Enantiomers SERS Discrimination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1555-1562.	4.0	54
5	Polymethylmethacrylate doped with porphyrin and silver nanoparticles as light-activated antimicrobial material. <i>RSC Advances</i> , 2014, 4, 50624-50630.	1.7	53
6	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.	2.3	53
7	Flexible SERS substrate for portable Raman analysis of biosamples. <i>Applied Surface Science</i> , 2018, 458, 95-99.	3.1	50
8	Ultrasensitive and reproducible SERS platform of coupled Ag grating with multibranching Au nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14761-14769.	1.3	44
9	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.	4.0	35
10	Smart Component for Switching of Plasmon Resonance by External Electric Field. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 225-231.	4.0	33
11	Large-scale, Ultrasensitive, Highly Reproducible and Reusable Smart SERS Platform Based on PNIPAA-grafted Gold Grating. <i>ChemNanoMat</i> , 2017, 3, 135-144.	1.5	33
12	Plasmon Catalysis on Bimetallic Surface-Selective Hydrogenation of Alkynes to Alkanes or Alkenes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26613-26622.	1.5	31
13	Preparation of periodic surface structures on doped poly(methyl methacrylate) films by irradiation with KrF excimer laser. <i>Nanoscale Research Letters</i> , 2014, 9, 591.	3.1	28
14	Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600886.	1.9	27
15	Plasmon-assisted Activation and Grafting by Iodonium Salt: Functionalization of Optical Fiber Surface. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800725.	1.9	26
16	Synthesis, Characterization, and Antimicrobial Activity of Near-IR Photoactive Functionalized Gold Multibranching Nanoparticles. <i>ChemistryOpen</i> , 2017, 6, 254-260.	0.9	23
17	Plasmon-assisted grafting of anisotropic nanoparticles – spatially selective surface modification and the creation of amphiphilic SERS nanoprobe. <i>Nanoscale</i> , 2020, 12, 14581-14588.	2.8	19
18	Surface morphology and optical properties of porphyrin/Au and Au/porphyrin/Au systems. <i>Nanoscale Research Letters</i> , 2013, 8, 547.	3.1	16

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19	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.	1.7	16
20	Silver nanostructures: From individual dots to coupled strips for the tailoring of SERS excitation wavelength from near-UV to near-IR. <i>Electronic Materials Letters</i> , 2015, 11, 288-294.	1.0	15
21	Longtime stability of silver-based SERS substrate in the environment and (bio)environment with variable temperature and humidity. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 566-572.	2.0	13
22	Reversible switching of PEDOT:PSS conductivity in the dielectricâ€“conductive range through the redistribution of light-governing polymers. <i>RSC Advances</i> , 2018, 8, 11198-11206.	1.7	12
23	Rapid SERS-based recognition of cell secretome on the folic acid-functionalized gold gratings. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3309-3319.	1.9	12
24	Porphyrin migration and aggregation in a poly(methylmethacrylate) matrix. <i>Polymer Composites</i> , 2014, 35, 665-670.	2.3	9
25	Flexible Conductive Polymer Film Grafted with Azo-Moieties and Patterned by Light Illumination with Anisotropic Conductivity. <i>Polymers</i> , 2019, 11, 1856.	2.0	7
26	Plasmooptoelectronic tuning of optical properties and SERS response of ordered silver grating by free carrier generation. <i>RSC Advances</i> , 2015, 5, 92869-92877.	1.7	6
27	Enhancement of Surface Plasmon Fiber Sensor Sensitivity Through the Grafting of Gold Nanoparticles. <i>Photonic Sensors</i> , 2020, 10, 105-112.	2.5	6
28	Annealing of laser patterned PMMA coated with gold and gallium. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3541-3545.	1.1	4
29	â€œArtificialâ€“chirality induced in doped polymer by irradiation with circularly polarized excimer laser light. <i>Optical Materials Express</i> , 2015, 5, 2761.	1.6	2
30	Design and optimization of the silver nanograting structure utilizing surface plasmon-polariton for increase of SERS sensor response. , 2017, , .		0