

Evgeniya S Sheremet

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,520
citations

393982

19
h-index

329751

37
g-index

69
all docs

69
docs citations

69
times ranked

2351
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the thermoelectric properties of PEDOT:PSS thin films by post-treatment. Journal of Materials Chemistry A, 2013, 1, 7576.	5.2	305
2	The correlation between electrical conductivity and second-order Raman modes of laser-reduced graphene oxide. Physical Chemistry Chemical Physics, 2019, 21, 10125-10134.	1.3	122
3	Chemical post-treatment and thermoelectric properties of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) thin films. Journal of Applied Physics, 2014, 115, .	1.1	62
4	Combination of surface- and interference-enhanced Raman scattering by CuS nanocrystals on nanopatterned Au structures. Beilstein Journal of Nanotechnology, 2015, 6, 749-754.	1.5	62
5	The substrate matters in the Raman spectroscopy analysis of cells. Scientific Reports, 2015, 5, 13150.	1.6	61
6	A Review of Nanocomposite-Modified Electrochemical Sensors for Water Quality Monitoring. Sensors, 2021, 21, 4131.	2.1	56
7	Ultra-robust Flexible Electronics by Laser-Driven Polymer-Nanomaterials Integration. Advanced Functional Materials, 2021, 31, 2008818.	7.8	49
8	Surface- and tip-enhanced Raman spectroscopy reveals spin-waves in iron oxide nanoparticles. Nanoscale, 2015, 7, 9545-9551.	2.8	46
9	Surface- and tip-enhanced resonant Raman scattering from CdSe nanocrystals. Physical Chemistry Chemical Physics, 2015, 17, 21198-21203.	1.3	40
10	Compact metal probes: A solution for atomic force microscopy based tip-enhanced Raman spectroscopy. Review of Scientific Instruments, 2012, 83, 123708.	0.6	37
11	Aluminum and copper nanostructures for surface-enhanced Raman spectroscopy: A one-to-one comparison to silver and gold. Sensors and Actuators B: Chemical, 2018, 262, 922-927.	4.0	35
12	Beyond graphene oxide: laser engineering functionalized graphene for flexible electronics. Materials Horizons, 2020, 7, 1030-1041.	6.4	32
13	Polymer Brushes on Graphitic Carbon Nitride for Patterning and as a SERS Active Sensing Layer via Incorporated Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 9797-9805.	4.0	29
14	Large-scale self-organized gold nanostructures with bidirectional plasmon resonances for SERS. RSC Advances, 2018, 8, 22569-22576.	1.7	28
15	Surface modification with special morphology for the metallization of polyimide film. Applied Surface Science, 2019, 487, 503-509.	3.1	28
16	Surface enhanced Raman scattering by organic and inorganic semiconductors formed on laterally ordered arrays of Au nanoclusters. Thin Solid Films, 2013, 543, 35-40.	0.8	26
17	Thermo-mechanical characterization of copper through-silicon vias (Cu-TSVs) using micro-Raman spectroscopy and atomic force microscopy. Microelectronic Engineering, 2015, 137, 101-104.	1.1	25
18	Enhanced field emission from lanthanum hexaboride coated multiwalled carbon nanotubes: Correlation with physical properties. Journal of Applied Physics, 2014, 116, .	1.1	23

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19	Carbon/carbon nanocomposites fabricated by base catalyzed twin polymerization of a Si-spiro compound on graphite sheets. <i>Chemical Communications</i> , 2012, 48, 9867.	2.2	22
20	High-power laser-patterning graphene oxide: A new approach to making arbitrarily-shaped self-aligned electrodes. <i>Carbon</i> , 2019, 151, 148-155.	5.4	20
21	Flexible and water-stable graphene-based electrodes for long-term use in bioelectronics. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112426.	5.3	19
22	Nanoscale optical and electrical characterization of horizontally aligned single-walled carbon nanotubes. <i>Nanoscale Research Letters</i> , 2012, 7, 682.	3.1	18
23	Flexible plasmonic graphene oxide/heterostructures for dual-channel detection. <i>Analyst, The</i> , 2019, 144, 3297-3306.	1.7	18
24	Time-stable wetting effect of plasma-treated biodegradable scaffolds functionalized with graphene oxide. <i>Surface and Coatings Technology</i> , 2020, 388, 125560.	2.2	17
25	Temperature-dependent Raman investigation of rolled up InGaAs/GaAs microtubes. <i>Nanoscale Research Letters</i> , 2012, 7, 594.	3.1	16
26	Chemical Enhancement vs Molecule-Substrate Geometry in Plasmon-Enhanced Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 2243-2255.	3.2	16
27	A review of surface-enhanced Raman spectroscopy in pathological processes. <i>Analytica Chimica Acta</i> , 2021, 1187, 338978.	2.6	16
28	Surface-enhanced Raman scattering and gap-mode tip-enhanced Raman scattering investigations of phthalocyanine molecules on gold nanostructured substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, 04E110.	0.6	15
29	Selective Raman modes and strong photoluminescence of gallium selenide flakes on sp ² carbon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, 04E106.	0.6	14
30	Enhanced field emission from cerium hexaboride coated multiwalled carbon nanotube composite films: A potential material for next generation electron sources. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	14
31	Unraveling The Origin of Enhanced Field Emission from Irradiated FeCo-SiO ₂ Nanocomposites: A Combined Experimental and First-Principles Based Study. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4994-5001.	4.0	14
32	Nanoscale imaging and identification of a four-component carbon sample. <i>Carbon</i> , 2016, 96, 588-593.	5.4	14
33	Carbon nanotube based via interconnects: Performance estimation based on the resistance of individual carbon nanotubes. <i>Microelectronic Engineering</i> , 2014, 120, 210-215.	1.1	13
34	Resonant surface-enhanced Raman scattering by optical phonons in a monolayer of CdSe nanocrystals on Au nanocluster arrays. <i>Applied Surface Science</i> , 2016, 370, 410-417.	3.1	13
35	Formation of CdSe nanocrystals in Cd-doped thin arsenic selenide films under laser irradiation. <i>Thin Solid Films</i> , 2018, 651, 163-169.	0.8	13
36	Mechanical properties and applications of custom-built gold AFM cantilevers. <i>Mechatronics</i> , 2016, 40, 281-286.	2.0	11

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37	Metal nanoparticles reveal the organization of single-walled carbon nanotubes in bundles. RSC Advances, 2016, 6, 15753-15758.	1.7	11
38	Structural and optical study of Zn-doped As ₂ Se ₃ thin films: Evidence for photoinduced formation of ZnSe nanocrystallites. AIP Advances, 2019, 9, .	0.6	11
39	Ultra-Uniform and Very Thin Ag Nanowires Synthesized via the Synergy of Cl ⁻ , Br ⁻ and Fe ³⁺ for Transparent Conductive Films. Nanomaterials, 2020, 10, 237.	1.9	11
40	Photoinduced flexible graphene/polymer nanocomposites: Design, formation mechanism, and properties engineering. Carbon, 2022, 194, 154-161.	5.4	11
41	Twisted graphene in graphite: Impact on surface potential and chemical stability. Carbon, 2021, 176, 431-439.	5.4	10
42	Bottom-up fabrication of graphene-based conductive polymer carpets for optoelectronics. Journal of Materials Chemistry C, 2018, 6, 4919-4927.	2.7	9
43	Stress imaging in structural challenging MEMS with high sensitivity using micro-Raman spectroscopy. Microelectronics Reliability, 2017, 79, 104-110.	0.9	8
44	Ion-Induced Defects in Graphite: A Combined Kelvin Probe and Raman Microscopy Investigation. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900055.	0.8	8
45	All-inkjet-printed MoS ₂ field-effect transistors on paper for low-cost and flexible electronics. Applied Nanoscience (Switzerland), 2020, 10, 3649-3658.	1.6	8
46	Mechanisms of nanowisker formation: Monte Carlo simulation. Optoelectronics, Instrumentation and Data Processing, 2009, 45, 342-347.	0.2	7
47	Raman scattering of InAs/AlAs quantum dot superlattices grown on (001) and (311)B GaAs surfaces. Nanoscale Research Letters, 2012, 7, 476.	3.1	7
48	Back-end-of-line compatible contact materials for carbon nanotube based interconnects. Microelectronic Engineering, 2015, 137, 130-134.	1.1	7
49	Multiwavelength optical sensor based on a gradient photonic crystal with a hexagonal plasmonic array. Sensors and Actuators B: Chemical, 2020, 311, 127837.	4.0	7
50	Distinguishing between Individual Contributions to the Via Resistance in Carbon Nanotubes Based Interconnects. ECS Journal of Solid State Science and Technology, 2012, 1, M47-M51.	0.9	6
51	Raman, AFM, and TEM profiling of QD multilayer structures. Materials Research Express, 2015, 2, 035003.	0.8	6
52	Patterning GaSe by High-Powered Laser Beams. ACS Omega, 2020, 5, 10183-10190.	1.6	6
53	Detection of Dimethoate Pesticide using Layer by Layer Deposition of PDAC/GO on Ag electrode. , 2019, , .		5
54	All-inkjet-printed high-performance flexible MoS ₂ and MoS ₂ -reduced graphene oxide field-effect transistors. Journal of Materials Science, 2020, 55, 12969-12979.	1.7	5

#	ARTICLE	IF	CITATIONS
55	Optical Absorption Imaging by Photothermal Expansion with 4 nm Resolution. ACS Photonics, 2018, 5, 3338-3346.	3.2	4
56	Localized surface curvature artifacts in tip-enhanced nanospectroscopy imaging. Ultramicroscopy, 2019, 206, 112811.	0.8	4
57	Advanced Characterization Methods for Electrical and Sensoric Components and Devices at the Micro and Nano Scales. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900106.	0.8	4
58	Raman Spectroscopy Investigation of Laser-Irradiated Single-Walled Carbon Nanotube Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1800412.	0.7	3
59	Enhanced selective adsorption and photocatalytic of Ag/Bi ₂ O ₃ heterostructures modified up-conversion nanoparticles. Journal of Environmental Chemical Engineering, 2022, 10, 107107.	3.3	3
60	Effect of substrate-drop parameters on nanowhiskers morphology. , 2008, , .		2
61	Non-invasive monitoring of red beet development. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 212, 155-159.	2.0	2
62	Flexible Electronics: Ultra-Robust Flexible Electronics by Laser-Driven Polymer-Nanomaterials Integration (Adv. Funct. Mater. 17/2021). Advanced Functional Materials, 2021, 31, 2170114.	7.8	2
63	Surface-Enhanced Raman Spectroscopy and Electrochemistry: The Ultimate Chemical Sensing and Manipulation Combination. Critical Reviews in Analytical Chemistry, 2024, 54, 110-134.	1.8	2
64	Understanding tip-enhanced Raman spectroscopy by multiphysics finite element simulations. , 2015, , .		1
65	Raman based stress analysis of the active areas of a piezoresistive MEMS force sensor – Experimental setup, data processing, and comparison to numerically obtained results. , 2016, , .		1
66	Examination of nanotube growth conditions by Monte Carlo simulation. , 2009, , .		0
67	Reduced Graphene Oxide Nanostructures by Light: Going Beyond the Diffraction Limit. Journal of Physics: Conference Series, 2018, 1092, 012124.	0.3	0
68	Novel advanced scoping meta-review methodology for defining a graduate level textbook in an emerging subject area.. LIBER Quarterly, 2018, 28, 1.	0.6	0