

# Tomas Rindzevicius

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

3,554  
citations

201674

27  
h-index

138484

58  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4768  
citing authors

#	ARTICLE	IF	CITATIONS
1	Confined Plasmons in Nanofabricated Single Silver Particle Pairs: Experimental Observations of Strong Interparticle Interactions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1079-1087.	2.6	488
2	Controlling Plasmon Line Shapes through Diffractive Coupling in Linear Arrays of Cylindrical Nanoparticles Fabricated by Electron Beam Lithography. <i>Nano Letters</i> , 2005, 5, 1065-1070.	9.1	416
3	Localized Surface Plasmon Resonance Sensing of Lipid-Membrane-Mediated Biorecognition Events. <i>Journal of the American Chemical Society</i> , 2005, 127, 5043-5048.	13.7	272
4	Explosive and chemical threat detection by surface-enhanced Raman scattering: A review. <i>Analytica Chimica Acta</i> , 2015, 893, 1-13.	5.4	252
5	Plasmonic Sensing Characteristics of Single Nanometric Holes. <i>Nano Letters</i> , 2005, 5, 2335-2339.	9.1	248
6	Nanohole Plasmons in Optically Thin Gold Films. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1207-1212.	3.1	151
7	Surface-Enhanced Raman Spectroscopy Based Quantitative Bioassay on Aptamer-Functionalized Nanopillars Using Large-Area Raman Mapping. <i>ACS Nano</i> , 2013, 7, 5350-5359.	14.6	124
8	Surface-Based Gold-Nanoparticle Sensor for Specific and Quantitative DNA Hybridization Detection. <i>Langmuir</i> , 2003, 19, 10414-10419.	3.5	103
9	Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. <i>Nanoscale</i> , 2016, 8, 1305-1308.	5.6	91
10	Hand-Held Femtogram Detection of Hazardous Picric Acid with Hydrophobic Ag Nanopillar SERS Substrates and Mechanism of Elasto-Capillarity. <i>ACS Sensors</i> , 2017, 2, 198-202.	7.8	81
11	Single-Crystalline Gold Nanodisks on WS <sub>2</sub> Mono- and Multilayers for Strong Coupling at Room Temperature. <i>ACS Photonics</i> , 2019, 6, 994-1001.	6.6	80
12	Long-Range Refractive Index Sensing Using Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11806-11810.	3.1	77
13	Wafer-Scale Leaning Silver Nanopillars for Molecular Detection at Ultra-Low Concentrations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2053-2062.	3.1	71
14	Plasmonic Properties of Silver Trimers with Trigonal Symmetry Fabricated by Electron-Beam Lithography. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14313-14317.	3.1	70
15	Gold Nanoparticles Sliding on Recyclable Nanohoodoos Engineered for Surface-Enhanced Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2018, 28, 1704818.	14.9	57
16	Detecting forensic substances using commercially available SERS substrates and handheld Raman spectrometers. <i>Talanta</i> , 2018, 189, 649-652.	5.5	53
17	Quantitative SERS Assay on a Single Chip Enabled by Electrochemically Assisted Regeneration: A Method for Detection of Melamine in Milk. <i>Analytical Chemistry</i> , 2020, 92, 4317-4325.	6.5	53
18	Plasmon resonances of Ag capped Si nanopillars fabricated using mask-less lithography. <i>Optics Express</i> , 2015, 23, 12965.	3.4	52

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19	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 4053-4064.	6.5	50
20	Label-Free Quantification of Anticancer Drug Imatinib in Human Plasma with Surface Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2018, 90, 12670-12677.	6.5	46
21	Non-covalent conjugates of single-walled carbon nanotubes and folic acid for interaction with cells over-expressing folate receptors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1475.	5.8	45
22	Low-Power Photothermal Probing of Single Plasmonic Nanostructures with Nanomechanical String Resonators. <i>Nano Letters</i> , 2014, 14, 2318-2321.	9.1	39
23	Wafer-Scale Nanopillars Derived from Block Copolymer Lithography for Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15668-15675.	8.0	37
24	Towards quantitative SERS detection of hydrogen cyanide at ppb level for human breath analysis. <i>Sensing and Bio-Sensing Research</i> , 2015, 5, 84-89.	4.2	34
25	Adsorption and Vibrational Study of Folic Acid on Gold Nanopillar Structures Using Surface-Enhanced Raman Scattering Spectroscopy. <i>Nanomaterials and Nanotechnology</i> , 2015, 5, 29.	3.0	33
26	Nanopillar-Assisted SERS Chromatography. <i>ACS Sensors</i> , 2018, 3, 2492-2498.	7.8	32
27	High-throughput label-free detection of Ochratoxin A in wine using supported liquid membrane extraction and Ag-capped silicon nanopillar SERS substrates. <i>Food Control</i> , 2020, 113, 107183.	5.5	29
28	Dense high-aspect ratio 3D carbon pillars on interdigitated microelectrode arrays. <i>Carbon</i> , 2015, 94, 792-803.	10.3	28
29	Supercritical impregnation of polymer matrices spatially confined in microcontainers for oral drug delivery: Effect of temperature, pressure and time. <i>Journal of Supercritical Fluids</i> , 2016, 107, 145-152.	3.2	28
30	Nanopillar Filters for Surface-Enhanced Raman Spectroscopy. <i>ACS Sensors</i> , 2017, 2, 1400-1404.	7.8	28
31	Large-Scale, Lithography-Free Production of Transparent Nanostructured Surface for Dual-Functional Electrochemical and SERS Sensing. <i>ACS Sensors</i> , 2017, 2, 1869-1875.	7.8	27
32	SERS detection of the biomarker hydrogen cyanide from <i>Pseudomonas aeruginosa</i> cultures isolated from cystic fibrosis patients. <i>Scientific Reports</i> , 2017, 7, 45264.	3.3	26
33	Lithography-Free Fabrication of Silica Nanocylinders with Suspended Gold Nanorings for LSPR-Based Sensing. <i>Small</i> , 2016, 12, 6745-6752.	10.0	25
34	DNA self-assembly on graphene surface studied by SERS mapping. <i>Carbon</i> , 2016, 109, 363-372.	10.3	24
35	Quantification of Methotrexate in Human Serum Using Surface-Enhanced Raman Scattering Toward Therapeutic Drug Monitoring. <i>ACS Sensors</i> , 2021, 6, 2664-2673.	7.8	24
36	Surface Enhanced Raman Scattering for Quantification of <i>p</i> -Coumaric Acid Produced by <i>Escherichia coli</i> . <i>Analytical Chemistry</i> , 2017, 89, 3981-3987.	6.5	22

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37	Silver-capped silicon nanopillar platforms for adsorption studies of folic acid using surface enhanced Raman spectroscopy and density functional theory. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1087-1094.	2.5	21
38	Optimizing silver-capped silicon nanopillars to simultaneously realize macroscopic, practical-level SERS signal reproducibility and high enhancement at low costs. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1808-1818.	2.5	20
39	Selective surface-enhanced Raman scattering detection of Tabun, VX and Cyclosarin nerve agents using 4-pyridine amide oxime functionalized gold nanopillars. <i>Talanta</i> , 2020, 211, 120721.	5.5	18
40	Fabrication and characterization of Au dimer antennas on glass pillars with enhanced plasmonic response. <i>Nanophotonics</i> , 2017, 7, 497-505.	6.0	16
41	Wafer-Scale Polymer-Based Transparent Nanocorals with Excellent Nanoplasmonic Photothermal Stability for High-Power and Superfast SERS Imaging. <i>Advanced Optical Materials</i> , 2019, 7, 1901413.	7.3	16
42	Synthesis and characterization of covalent diphenylalanine nanotube-folic acid conjugates. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	14
43	Experimental and First-Principles Spectroscopy of Cu <sub>2</sub> SrSn <sub>4</sub> and Cu <sub>2</sub> BaSn <sub>4</sub> Photoabsorbers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50446-50454.	8.0	13
44	Computational and experimental studies of the interaction between single-walled carbon nanotubes and folic acid. <i>Chemical Physics Letters</i> , 2013, 564, 60-64.	2.6	12
45	Detection of surface-linked polychlorinated biphenyls using surface-enhanced Raman scattering spectroscopy. <i>Vibrational Spectroscopy</i> , 2017, 90, 1-6.	2.2	12
46	Controlled Drug Release from Biodegradable Polymer Matrix Loaded in Microcontainers Using Hot Punching. <i>Pharmaceutics</i> , 2020, 12, 1050.	4.5	12
47	Methotrexate Detection in Serum at Clinically Relevant Levels with Electrochemically Assisted SERS on a Benchtop, Custom Built Raman Spectrometer. <i>ACS Sensors</i> , 2022, 7, 2358-2369.	7.8	12
48	Visualizing undyed microplastic particles and fibers with plasmon-enhanced fluorescence. <i>Chemical Engineering Journal</i> , 2022, 442, 136117.	12.7	9
49	Mathematical model for biomolecular quantification using large-area surface-enhanced Raman spectroscopy mapping. <i>RSC Advances</i> , 2015, 5, 85845-85853.	3.6	8
50	Large plasmonic color metasurfaces fabricated by super resolution deep UV lithography. <i>Nanoscale Advances</i> , 2021, 3, 2236-2244.	4.6	7
51	Surface-Enhanced Raman Spectroscopy Characterization of Pristine and Functionalized Carbon Nanotubes and Graphene. , 0, , .		6
52	Iron(III) complexing ability of new ligands based on natural $\beta$ -pyrone maltol. <i>Polyhedron</i> , 2020, 187, 114650.	2.2	6
53	SERS spectroscopy for detection of hydrogen cyanide in breath from children colonised with <i>P. aeruginosa</i> . <i>Analytical Methods</i> , 2017, 9, 5757-5762.	2.7	5
54	Detection of p-coumaric Acid from Cell Supernatant Using Surface Enhanced Raman Scattering. <i>Procedia Technology</i> , 2017, 27, 190-192.	1.1	5

#	ARTICLE	IF	CITATIONS
55	Quantifying Optical Absorption of Single Plasmonic Nanoparticles and Nanoparticle Dimers Using Microstring Resonators. ACS Sensors, 2020, 5, 2067-2075.	7.8	5
56	Surface-enhanced Raman Spectroscopy and Density Functional Theory Study of Glyphosate and Aminomethylphosphonic acid Using Silver Capped Silicon Nanopillars. Universitas Scientiarum, 2021, 26, 51-67.	0.4	5
57	Plasmonic and Diffractive Coupling in 2D Arrays of Nanoparticles produced by Electron Beam Lithography. Materials Research Society Symposia Proceedings, 2006, 951, 20.	0.1	3
58	Wide Line Surface-Enhanced Raman Scattering Mapping. Advanced Materials Technologies, 2020, 5, 1900999.	5.8	3
59	A pseudo-Voigt component model for high-resolution recovery of constituent spectra in Raman spectroscopy. , 2017, , .		2
60	Photothermal probing of plasmonic hotspots with nanomechanical resonator. , 2014, , .		1
61	Nanocylinders: Lithography-Free Fabrication of Silica Nanocylinders with Suspended Gold Nanorings for LSPR-Based Sensing (Small 48/2016). Small, 2016, 12, 6636-6636.	10.0	1
62	Click chemistry based biomolecular conjugation monitoring using surface-enhanced Raman spectroscopy mapping. , 2016, , .		1
63	Orientation of Pterin-6-Carboxylic Acid on Gold Capped Silicon Nanopillars Platforms: Surface Enhanced Raman Spectroscopy and Density Functional Theory Studies. Journal of the Brazilian Chemical Society, 2015, , .	0.6	0
64	Mathematical model for biomolecular quantification using surface-enhanced Raman spectroscopy based signal intensity distributions. , 2015, , .		0
65	High Volume Nanoimprint Lithography: Application Area Organic Electronics. , 2011, , .		0