

# Tomasz Ruman

## List of Publications by Year in descending order

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76  
papers

1,287  
citations

471061

17  
h-index

454577

30  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1499  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold nanoparticle-enhanced target (AuNPET) as universal solution for laser desorption/ionization mass spectrometry analysis and imaging of low molecular weight compounds. <i>Analytica Chimica Acta</i> , 2015, 875, 61-72.	2.6	84
2	Application of nicotine enantiomers, derivatives and analogues in therapy of neurodegenerative disorders. <i>European Journal of Pharmacology</i> , 2007, 563, 18-39.	1.7	66
3	Matrix-free laser desorption/ionization with silver nanoparticle-enhanced steel targets. <i>International Journal of Mass Spectrometry</i> , 2013, 335, 22-32.	0.7	65
4	Silver nanostructures in laser desorption/ionization mass spectrometry and mass spectrometry imaging. <i>Analyst</i> , 2015, 140, 6195-6209.	1.7	58
5	Novel Monoisotopic <sup>109</sup> AgNPET for Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 1926-1931.	3.2	44
6	Molecular Sieves in Medicine. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 1407-1417.	1.1	41
7	Surface-Transfer Mass Spectrometry Imaging of Renal Tissue on Gold Nanoparticle Enhanced Target. <i>Analytical Chemistry</i> , 2016, 88, 7365-7371.	3.2	41
8	Metabolomic study of human tissue and urine in clear cell renal carcinoma by LC-HRMS and PLS-DA. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3859-3869.	1.9	39
9	Electron capture dissociation mass spectrometric analysis of lysine-phosphorylated peptides. <i>Bioscience Reports</i> , 2010, 30, 433-443.	1.1	31
10	Surface-Transfer Mass Spectrometry Imaging on a Monoisotopic Silver Nanoparticle Enhanced Target. <i>Analytical Chemistry</i> , 2013, 85, 12070-12076.	3.2	30
11	Thiophosphorylation of free amino acids and enzyme protein by thiophosphoramidate ions. <i>Bioorganic Chemistry</i> , 2010, 38, 74-80.	2.0	27
12	Gold nanoparticle-enhanced target for MS analysis and imaging of harmful compounds in plant, animal tissue and on fingerprint. <i>Analytica Chimica Acta</i> , 2015, 895, 45-53.	2.6	27
13	Complexes of heteroscorpionate trispyrazolylborate anionic ligands. Part III. X-ray crystallographic and NMR studies on cobalt(II) complexes with tris(pyrazolyl)borate anionic ligands obtained from 3,5-di-methylpyrazole and 3(5)-methyl,5(3)-phenylpyrazole. <i>Polyhedron</i> , 2001, 20, 2551-2558.	1.0	26
14	Mass spectrometry imaging of low molecular weight metabolites in strawberry fruit ( <i>Fragaria x</i> ). <i>Journal of Mass Spectrometry</i> , 2014, 49, 1000-1008.	1.4	26
15	Analysis of paper foxing by newly available omics techniques. <i>International Biodeterioration and Biodegradation</i> , 2018, 132, 157-165.	1.9	25
16	Complexes of Heteroscorpionate Trispyrazolylborate Ligands. Part 10. Structures and Fluxional Behavior of Rhodium(I) Complexes with Heteroscorpionate Trispyrazolylborate Ligands, $Tp^{\wedge} \sim \sim Rh(LL) (LL = )$ . <i>Journal of Mass Spectrometry</i> , 2014, 49, 1000-1008.	1.4	25
17	Complexes of heteroscorpionate trispyrazolylborate ligands. Part VI. Carboxylate induced conversion of mono-ligand $Tp^{\wedge} M(L)$ into bis-ligand $Tp^{\wedge} M_2$ complexes (M=Co(II) and Cu(II)). <i>Polyhedron</i> , 2002, 21, 2743-2753.	1.0	19
18	Silver nanoparticles: a mechanism of action on moulds. <i>Metallomics</i> , 2016, 8, 1294-1302.	1.0	19

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19	Beeswax-Modified Textiles: Method of Preparation and Assessment of Antimicrobial Properties. <i>Polymers</i> , 2020, 12, 344.	2.0	19
20	Localization of Metabolites of Human Kidney Tissue with Infrared Laser-Based Selected Reaction Monitoring Mass Spectrometry Imaging and Silver-109 Nanoparticle-Based Surface Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2020, 92, 4251-4258.	3.2	19
21	Mass Spectrometry Imaging of low Molecular Weight Compounds in Garlic ( <i>Allium sativum</i> ) with Gold Nanoparticle Enhanced Target. <i>Phytochemical Analysis</i> , 2017, 28, 479-486.	1.2	18
22	Anionic Poly(pyrazolyl)borate Ligands Obtained from 3,5-Dimethylpyrazole and 3,5-Diphenylpyrazole and Their Cobalt(II) Complexes $\alpha^2$ X-ray Crystallographic and $^1\text{H}$ NMR Studies. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 754-760.	1.0	17
23	Visualizing spatial distribution of small molecules in the rhubarb stalk ( <i>Rheum rhabarbarum</i> ) by surface-transfer mass spectrometry imaging. <i>Phytochemistry</i> , 2017, 139, 72-80.	1.4	17
24	Laser Ablation Synthesis in Solution and Nebulization of Silver-109 Nanoparticles for Mass Spectrometry and Mass Spectrometry Imaging. <i>ACS Measurement Science</i> , 2022, 2, 14-22.	1.9	17
25	Complexes of heteroscorpionate trispyrazolylborate anionic ligands. Part V. X-ray crystallographic studies of cobalt(II) complexes with hydrobis(3,5-dimethylpyrazolyl)(3,5-diphenylpyrazolyl)borate and hydrobis(3,5-diphenylpyrazolyl)(3,5-dimethylpyrazolyl)borate ligands. <i>Polyhedron</i> , 2001, 20, 2965-2970.	1.0	16
26	Complexes of heteroscorpionate trispyrazolylborate ligands. Part XI. Weak CH/... interactions in crystals of hydrotris(3-phenylpyrazolyl)boratothallium(I) and hydrobis(5-methyl-3-phenylpyrazolyl)(3,5-dimethylpyrazol-yl)boratothallium(I) studied by X-ray crystallography. <i>Journal of Molecular Structure</i> , 2004, 690, 175-180.	1.8	16
27	The synthesis, reactivity and $^1\text{H}$ NMR investigation of the hydroxyborohydride anion. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1074-1078.	1.8	16
28	Synthesis, reactivity and biological activity of N(4)-boronated derivatives of $2\text{-deoxycytidine}$ . <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 3906-3912.	1.4	16
29	Silver-109 based laser desorption/ionization mass spectrometry method for detection and quantification of amino acids. <i>Journal of Mass Spectrometry</i> , 2018, 53, 369-378.	0.7	16
30	Nuclear magnetic resonance and surface-assisted laser desorption/ionization mass spectrometry-based serum metabolomics of kidney cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5827-5841.	1.9	16
31	Complexes of heteroscorpionate trispyrazolylborate anionic ligands. <i>Polyhedron</i> , 2001, 20, 237-244.	1.0	15
32	Synthesis, X-ray Crystallographic and $^1\text{H}$ NMR Spectroscopic Structural Studies on Cobalt(II) Complexes of Homoscorpionate, Heteroscorpionates and Chiral Tris(pyrazolyl)borates Obtained from 5(3)-Isopropyl-3(5)-phenylpyrazole and 3,5-Dimethylpyrazole. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 2475-2485.	1.0	15
33	Biological activity of N(4)-boronated derivatives of $2\text{-deoxycytidine}$ , potential agents for boron-neutron capture therapy. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 6297-6304.	1.4	15
34	Properties of phosphorylated thymidylate synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1922-1934.	1.1	15
35	Laser desorption/ionization MS imaging of cancer kidney tissue on silver nanoparticle-enhanced target. <i>Bioanalysis</i> , 2018, 10, 83-94.	0.6	15
36	Analyses of microorganisms and metabolites diversity on historic photographs using innovative methods. <i>Journal of Cultural Heritage</i> , 2020, 45, 101-113.	1.5	15

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37	Nuclear magnetic resonance and surface-assisted laser desorption/ionization mass spectrometry-based metabolome profiling of urine samples from kidney cancer patients. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 193, 113752.	1.4	15
38	Metabolomic and elemental profiling of human tissue in kidney cancer. <i>Metabolomics</i> , 2021, 17, 30.	1.4	15
39	Lysine detection and quantification by laser desorption/ionization mass spectrometry on gold nanoparticle-enhanced target. <i>Analytical Methods</i> , 2018, 10, 5398-5405.	1.3	14
40	Screening of Urinary Renal Cancer Metabolic Biomarkers with Gold Nanoparticles-assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Sciences</i> , 2020, 36, 1521-1527.	0.8	13
41	The X-ray crystallographic structures, spectral and magnetic properties of nickel(II), copper(II) and cobalt(II) complexes with tetra(3-iso-propylpyrazol-1-yl)borate. <i>Polyhedron</i> , 2003, 22, 1645-1652.	1.0	12
42	Phosphorylation of thymidylate synthase affects slow-binding inhibition by 5-fluoro-dUMP and N <sup>4</sup> -hydroxy-dCMP. <i>Molecular BioSystems</i> , 2016, 12, 1333-1341.	2.9	12
43	Laser Ablation Remote-Electrospray Ionisation Mass Spectrometry (LARESI MSI) Imaging – New Method for Detection and Spatial Localization of Metabolites and Mycotoxins Produced by Moulds. <i>Toxins</i> , 2020, 12, 720.	1.5	12
44	Microbiological and Toxicological Hazards in Sewage Treatment Plant Bioaerosol and Dust. <i>Toxins</i> , 2021, 13, 691.	1.5	12
45	Metabolome profiles of moulds on carton-gypsum board and malt extract agar medium obtained using an AuNPET SALDI-ToF-MS method. <i>International Biodeterioration and Biodegradation</i> , 2017, 125, 13-23.	1.9	11
46	Metabolic profiling of moulds with laser desorption/ionization mass spectrometry on gold nanoparticle enhanced target. <i>Analytical Biochemistry</i> , 2018, 549, 45-52.	1.1	11
47	Metabolomics and metagenomics characteristic of historic beeswax seals. <i>International Biodeterioration and Biodegradation</i> , 2020, 152, 105012.	1.9	11
48	Serum and urine analysis with gold nanoparticle-assisted laser desorption/ionization mass spectrometry for renal cell carcinoma metabolic biomarkers discovery. <i>Advances in Medical Sciences</i> , 2021, 66, 326-335.	0.9	11
49	Synthesis and NMR properties of novel 5,6-dihydroborauracil derivatives. <i>Bioorganic Chemistry</i> , 2009, 37, 65-69.	2.0	9
50	Boron Nucleic Acid Bases, Nucleosides and Nucleotides. <i>Mini-Reviews in Organic Chemistry</i> , 2012, 9, 418-425.	0.6	9
51	Silver-109/Silver/Gold Nanoparticle-Enhanced Target Surface-Assisted Laser Desorption/Ionisation Mass Spectrometry – The New Methods for an Assessment of Mycotoxin Concentration on Building Materials. <i>Toxins</i> , 2021, 13, 45.	1.5	9
52	Assessment of Physicochemical, Microbiological and Toxicological Hazards at an Illegal Landfill in Central Poland. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4826.	1.2	9
53	BIS(HYDROXYALKYLATED) DERIVATIVES OF PARABANIC ACID. <i>Heterocyclic Communications</i> , 2002, 8, .	0.6	8
54	The aromaticity of 5,6-dihydroborauracil, borauracil and benzoborauracil systems. <i>Bioorganic Chemistry</i> , 2010, 38, 242-245.	2.0	8

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55	Crystal structure of phosphoramidate-phosphorylated thymidylate synthase reveals pSer127, reflecting probably pHis to pSer phosphotransfer. <i>Bioorganic Chemistry</i> , 2014, 52, 44-49.	2.0	8
56	Laser Desorption/Ionisation Mass Spectrometry Imaging of European Yew (<sc><i>Taxus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td	1.2	8
57	Complexes of heteroscorpionate trispyrazolylborate ligands. Part IX. X-ray crystallographic studies on cobalt(II) complexes of hydrobis(3-phenyl,5-methylpyrazolyl)(3,5-diethylpyrazolyl)borate. <i>Polyhedron</i> , 2003, 22, 581-586.	1.0	7
58	Complexes of heteroscorpionate trispyrazolylborate ligands. Part XII. Variable hapticity of hydrobis(3-phenyl-5-isopropylpyrazolyl)(3,5-dimethylpyrazolyl)borate in its rhodium(I) complexes with COD and NBD. <i>Polyhedron</i> , 2004, 23, 219-223.	1.0	7
59	Synthesis and NMR properties of derivatives of 5,6-dihydroborauracil and 5,6-dihydroborathymine. <i>Bioorganic Chemistry</i> , 2009, 37, 180-184.	2.0	7
60	The Ambivalent Bonding of the 3(5)-Isopropylpyrazolyl Moiety in Homo- and Heteroscorpionate Hydrobis(3-R1-5-R2-pyrazolyl)( $\gamma$ -isopropylpyrazolyl)boratocobalt(II) Complexes ( $\gamma = 3$ or 5). <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 89-93.	1.0	6
61	The Synthesis, Reactivity and NMR Investigation on <sup>15</sup> N-Thiophosphoramidates (Supplementary) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0,2	6
62	Pincer Complexes Based on Phosphinoaminopyridines: Synthesis, Structural Characterization and Catalytic Applications. <i>Current Organic Chemistry</i> , 2011, 15, 3486-3502.	0.9	6
63	N(4)-[B-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan)methyl]-2 $\alpha$ -deoxycytidine as a potential boron delivery agent with respect to glioblastoma. <i>Biomedicine and Pharmacotherapy</i> , 2017, 95, 749-755.	2.5	6
64	Gold and silver nanoparticles $\epsilon$ based laser desorption/ionization mass spectrometry method for detection and quantification of carboxylic acids. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4604.	0.7	6
65	Gold nanostructures - assisted laser desorption/ionization mass spectrometry for kidney cancer blood serum biomarker screening. <i>International Journal of Mass Spectrometry</i> , 2020, 456, 116396.	0.7	5
66	Metabolomics and metagenomics analysis of 18th century archaeological silk. <i>International Biodeterioration and Biodegradation</i> , 2021, 156, 105120.	1.9	5
67	Synthesis and NMR properties of the first boron analogues of uracil. <i>Bioorganic Chemistry</i> , 2010, 38, 33-36.	2.0	4
68	Tyrosinenitration affects thymidylate synthase properties. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 323-331.	1.5	4
69	Mass spectrometry-based metabolomic profiling of prostate cancer - a pilot study. <i>Journal of Cancer Metastasis and Treatment</i> , 0, 2019, .	0.5	4
70	The synthesis and NMR investigation on novel boron derivatives of stavudine. <i>Bioorganic Chemistry</i> , 2010, 38, 87-91.	2.0	3
71	Infrared pulsed fiber laser $\epsilon$ produced silver $\epsilon$ 109 $\epsilon$ nanoparticles for laser desorption/ionization mass spectrometry of amino acids. <i>Journal of Mass Spectrometry</i> , 2022, 57, e4815.	0.7	3
72	Infrared pulsed fiber laser-produced silver-109-nanoparticles for laser desorption/ionization mass spectrometry of carboxylic acids. <i>International Journal of Mass Spectrometry</i> , 2022, 474, 116816.	0.7	3

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73	Silver 109 Ag Nanoparticles for Matrix-Less Mass Spectrometry of Nucleosides and Nucleic Bases. International Journal of Chemical Engineering and Applications (IJCEA), 2013, , 46-49.	0.3	2
74	The Analysis of Hyperfine Shifts of Mono-Ligand High-Spin Cobalt(II) Pyrazolylborate Complexes. Applied Magnetic Resonance, 2010, 38, 321-335.	0.6	1
75	Exceptionally Selective Catalytic Hydrogenation of Alkene with Pinacolborane. Letters in Organic Chemistry, 2012, 9, 257-262.	0.2	0
76	The synthesis and NMR properties of boron analogues of nucleotides and cyclic nucleotides. Letters in Organic Chemistry, 2013, 10, 664-667.	0.2	0