

# Julius Pavlov

## List of Publications by Year in descending order

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30  
papers

366  
citations

933447

10  
h-index

794594

19  
g-index

31  
all docs

31  
docs citations

31  
times ranked

429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation of high energetic and insensitive munitions compounds by Fe/Cu bimetal reduction. Journal of Hazardous Materials, 2012, 219-220, 75-81.	12.4	91
2	Influence of Ionization Source Conditions on the Gas-Phase Protomer Distribution of Anilinium and Related Cations. Journal of the American Society for Mass Spectrometry, 2017, 28, 1575-1586.	2.8	37
3	Quantification and remote detection of nitro explosives by helium plasma ionization mass spectrometry (HePI-MS) on a modified atmospheric pressure source designed for electrospray ionization. Journal of Mass Spectrometry, 2012, 47, 845-852.	1.6	35
4	Direct Detection of Inorganic Nitrate Salts by Ambient Pressure Helium-Plasma Ionization Mass Spectrometry. Analytical Chemistry, 2013, 85, 278-282.	6.5	20
5	Characteristics and products of the reductive degradation of 3-nitro-1,2,4-triazol-5-one (NTO) and 2,4-dinitroanisole (DNAN) in a Fe-Cu bimetal system. Environmental Science and Pollution Research, 2017, 24, 2744-2753.	5.3	20
6	Real-Time Monitoring of In Situ Gas-Phase H/D Exchange Reactions of Cations by Atmospheric Pressure Helium Plasma Ionization Mass Spectrometry (HePI-MS). Analytical Chemistry, 2014, 86, 928-935.	6.5	19
7	Collision-induced dissociation processes of protonated benzoic acid and related compounds: competitive generation of protonated carbon dioxide or protonated benzene. Journal of Mass Spectrometry, 2017, 52, 230-238.	1.6	18
8	Generation and detection of gaseous W <sub>12</sub> O <sub>41</sub> <sup>-</sup> and other tungstate anions by laser desorption ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2009, 20, 1782-1789.	2.8	15
9	Oxidative Ionization Under Certain Negative-Ion Mass Spectrometric Conditions. Journal of the American Society for Mass Spectrometry, 2017, 28, 270-277.	2.8	15
10	Enhancement of laser desorption ionization mass spectrometric signals of cesium iodide by elemental sulfur. Rapid Communications in Mass Spectrometry, 2013, 27, 763-766.	1.5	13
11	Direct detection and identification of active pharmaceutical ingredients in intact tablets by helium plasma ionization (HePI) mass spectrometry. Journal of Pharmaceutical Analysis, 2014, 4, 166-172.	5.3	9
12	Screening freshness of seafood by measuring trimethylamine (TMA) levels using helium-plasma ionization mass spectrometry (HePI-MS). Journal of Analytical Science and Technology, 2019, 10, .	2.1	9
13	Hydrolysis of Hexanitrohexaazaisowurtzitane (CL-20). Journal of Energetic Materials, 2007, 25, 1-18.	2.0	8
14	Direct Detection of Solid Inorganic Mercury Salts at Ambient Pressure by Electron-Capture and Reaction-Assisted HePI Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 149-153.	2.8	7
15	Competitive homolytic and heterolytic decomposition pathways of gas-phase negative ions generated from aminobenzoate esters. Journal of Mass Spectrometry, 2016, 51, 245-253.	1.6	7
16	Nominal Mass?. Journal of the American Society for Mass Spectrometry, 2017, 28, 1737-1738.	2.8	6
17	Regulated In Situ Generation of Molecular Ions or Protonated Molecules under Atmospheric-Pressure Helium-Plasma-Ionization Mass Spectrometric Conditions. Journal of the American Society for Mass Spectrometry, 2015, 26, 1252-1255.	2.8	5
18	1,4-Benzoquinone as a Highly Efficient Dopant for Enhanced Ionization and Detection of Nitramine Explosives on a Single-Quadrupole Mass Spectrometer Fitted with a Helium-Plasma Ionization (HePI) Source. Journal of the American Society for Mass Spectrometry, 2019, 30, 2704-2710.	2.8	4

#	ARTICLE	IF	CITATIONS
19	Gold Nanoparticles (AuNPs) as Reactive Matrix for Detection of Trace Levels of HCN in Air by Laser Desorption/Ionization Mass Spectrometry (LDI-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 806-813.	2.8	4
20	System-Dynamics Modeling of Source Mass-Depletion and Risk- Exposure Evolution for Natural Attenuation Processes in the Vadose Zone. <i>Environmental Processes</i> , 2017, 4, 207-222.	3.5	3
21	Brimstone chemistry under laser light assists mass spectrometric detection and imaging the distribution of arsenic in minerals. <i>Dalton Transactions</i> , 2018, 47, 8221-8228.	3.3	3
22	HCN emission by a Polydesmid Millipede Detected Remotely by Reactive Adsorption on Gold Nanoparticles Followed by Laser Desorption/Ionization Mass Spectrometry (LDI-MS). <i>Journal of Chemical Ecology</i> , 2020, 46, 455-460.	1.8	3
23	Helium-Plasma-Ionization Mass Spectrometry of Metallocenes and Their Derivatives. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 548-559.	2.8	3
24	Periodic Trends Manifested through Gas-Phase Generation of Anions Such as $[\text{AlH}_4]^{+}$ , $[\text{GaH}_4]^{+}$ , $[\text{InH}_4]^{+}$ , $[\text{SrH}_3]^{+}$ , $[\text{BaH}_3]^{+}$ , $[\text{Ba}(\text{O})(\text{I})_2\text{-O}_2\text{CH}]_1^{+}$ , $[\text{Pb}(\text{O})\text{H}]^{+}$ , $[\text{Bi}(\text{I})\text{H}_2]^{+}$ , and $\text{Bi}^{+}$ from Formates. <i>ACS Omega</i> , 2018, 3, 3440-3452.	3.5	2
25	Fortuitous Ion-Molecule Reaction Enables Enumeration of Metal-Hydrogen Bonds Present in Gaseous Ions. <i>ACS Omega</i> , 2019, 4, 3965-3972.	3.5	2
26	Monoisotopic Mass?. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 5-10.	2.8	2
27	Reply to the Comment on: "Nominal Mass?" by Athula B. Attygalle and Julius Pavlov, <i>J. Am. Soc. Mass Spectrom.</i> 28, 1737-1738 (2017). <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2726-2727.	2.8	1
28	Chalcophile chemistry for enhanced detection of copper in its compounds and minerals. <i>Polyhedron</i> , 2019, 167, 127-136.	2.2	1
29	Biodegradation of Hexanitrohexaazaisowurtzitane (CL-20). <i>Environmental Science and Engineering</i> , 2014, , 285-299.	0.2	0
30	Remote monitoring of structural health in composites. <i>Steel Construction</i> , 2017, 10, 31-36.	0.8	0