Sergey Zakharov

List of Publications by Year in descending order

96 papers	2,235 citations	218381 26 h-index	264894 42 g-index
104 all docs	104 docs citations	104 times ranked	2081 citing authors

#	Article	IF	Citations
1	Improved isolation strategies to increase the yield and purity of human urinary exosomes for biomarker discovery. Scientific Reports, 2018, 8, 3945.	1.6	142
2	Czech mass methanol outbreak 2012: Epidemiology, challenges and clinical features. Clinical Toxicology, 2014, 52, 1013-1024.	0.8	108
3	Long-term visual damage after acute methanol poisonings: Longitudinal cross-sectional study in 50 patients. Clinical Toxicology, 2015, 53, 884-892.	0.8	78
4	Markers of oxidative damage of nucleic acids and proteins among workers exposed to TiO₂(nano) particles. Occupational and Environmental Medicine, 2016, 73, 110-118.	1.3	76
5	Regulation of cation channels in cardiac and smooth muscle cells by intracellular magnesium. Archives of Biochemistry and Biophysics, 2007, 458, 73-89.	1.4	73
6	Intermittent hemodialysis is superior to continuous veno-venous hemodialysis/hemodiafiltration to eliminate methanol and formate during treatment for methanol poisoning. Kidney International, 2014, 86, 199-207.	2.6	70
7	38th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 22â€“25 May 2018, Bucharest, Romania. Clinical Toxicology, 2018, 56, 453-608.	0.8	69
8	Fomepizoleversusethanol in the treatment of acute methanol poisoning: Comparison of clinical effectiveness in a mass poisoning outbreak. Clinical Toxicology, 2015, 53, 797-806.	0.8	63
9	37th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 16â€“19 May 2017, Basel, Switzerland. Clinical Toxicology, 2017, 55, 371-544.	0.8	60
10	Oxidative stress markers are elevated in exhaled breath condensate of workers exposed to nanoparticles during iron oxide pigment production. Journal of Breath Research, 2016, 10, 016004.	1.5	59
11	Freight car models and their computer-aided dynamicÂanalysis. Multibody System Dynamics, 2009, 22, 399-423.	1.7	52
12	Markers of lipid oxidative damage in the exhaled breath condensate of nano TiO₂ production workers. Nanotoxicology, 2017, 11, 52-63.	1.6	51
13	Raman microspectroscopy of exhaled breath condensate and urine in workers exposed to fine and nano TiO ₂ particles: a cross-sectional study. Journal of Breath Research, 2015, 9, 036008.	1.5	50
14	Is the Measurement of Serum Formate Concentration Useful in the Diagnostics of Acute Methanol Poisoning? A Prospective Study of 38 Patients. Basic and Clinical Pharmacology and Toxicology, 2015, 116, 445-451.	1.2	48
15	Acute Methanol Poisoning: Prevalence and Predisposing Factors of Haemorrhagic and Nonâ€Haemorrhagic Brain Lesions. Basic and Clinical Pharmacology and Toxicology, 2016, 119, 228-238.	1.2	42
16	Suicide attempts by deliberate self-poisoning in children and adolescents. Psychiatry Research, 2013, 210, 302-307.	1.7	41
17	Acute methanol poisonings: Folates administration and visual sequelae. Journal of Applied Biomedicine, 2014, 12, 309-316.	0.6	36
18	Use of Out-of-Hospital Ethanol Administration to Improve Outcome in Mass Methanol Outbreaks. Annals of Emergency Medicine, 2016, 68, 52-61.	0.3	34

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19	Treatment of experimental asthma using a single small molecule with antiâ€inflammatory and BK channelâ€activating properties. FASEB Journal, 2013, 27, 4975-4986.	0.2	31
20	Leukotrienes in exhaled breath condensate and fractional exhaled nitric oxide in workers exposed to TiO ₂ nanoparticles. Journal of Breath Research, 2016, 10, 036004.	1.5	31
21	Seizures as a complication of recreational drug use: Analysis of the Euro-DEN Plus data-set. NeuroToxicology, 2019, 73, 183-187.	1.4	31
22	Progressive Chronic Retinal Axonal Loss Following Acute Methanol-induced Optic Neuropathy: Four-Year Prospective Cohort Study. American Journal of Ophthalmology, 2018, 191, 100-115.	1.7	30
23	Fomepizole in the treatment of acute methanol poisonings: Experience from the Czech mass methanol outbreak 2012-2013. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2014, 158, 641-649.	0.2	30
24	Consensus statements on the approach to patients in a methanol poisoning outbreak. Clinical Toxicology, 2019, 57, 1129-1136.	0.8	29
25	Efficient and Accurate Theoretical Methods To Investigate Anion-Ï€ Interactions in Protein Model Structures. Journal of Physical Chemistry B, 2013, 117, 3315-3322.	1.2	26
26	Markers of lipid oxidative damage among office workers exposed intermittently to air pollutants including nanoTiO2 particles. Reviews on Environmental Health, 2017, 32, 193-200.	1.1	26
27	Fluctuations in serum ethanol concentration in the treatment of acute methanol poisoning: a prospective study of 21 patients. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2015, 159, 666-676.	0.2	26
28	Deep Airway Inflammation and Respiratory Disorders in Nanocomposite Workers. Nanomaterials, 2018, 8, 731.	1.9	25
29	Epidemiology, clinical features and management of patients presenting to European emergency departments with acute cocaine toxicity: comparison between powder cocaine and crack cocaine cases. Clinical Toxicology, 2019, 57, 718-726.	0.8	25
30	Simulation of mutual wheel/rail wear. Wear, 2002, 253, 100-106.	1.5	24
31	Nonâ€Fatal Suicidal Selfâ€Poisonings in Children and Adolescents over a 5â€Year Period (2007â€“2011). Basic and Clinical Pharmacology and Toxicology, 2013, 112, 425-430.	1.2	24
32	Leukotriene-mediated neuroinflammation, toxic brain damage, and neurodegeneration in acute methanol poisoning. Clinical Toxicology, 2017, 55, 249-259.	0.8	24
33	Efficiency of acidemia correction on intermittent versus continuous hemodialysis in acute methanol poisoning. Clinical Toxicology, 2017, 55, 123-132.	0.8	24
34	Medication errorsâ€”an enduring problem for children and elderly patients. Upsala Journal of Medical Sciences, 2012, 117, 309-317.	0.4	23
35	Successful Use of Hydroxocobalamin and Sodium Thiosulfate in Acute Cyanide Poisoning: A Case Report with Followâ€up. Basic and Clinical Pharmacology and Toxicology, 2015, 117, 209-212.	1.2	23
36	Markers of Oxidative Stress in the Exhaled Breath Condensate of Workers Handling Nanocomposites. Nanomaterials, 2018, 8, 611.	1.9	23

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37	Imaging findings after methanol intoxication (cohort of 46 patients). Neuroendocrinology Letters, 2015, 36, 737-44.	0.2	23
38	Wheel flange/rail head wear simulation. Wear, 1998, 215, 18-24.	1.5	21
39	Rare Alleles within the <scp>CYP</scp>2E1 (<scp>MEOS</scp> System) Could be Associated with Better Shortâ€Term Health Outcome after Acute Methanol Poisoning. Basic and Clinical Pharmacology and Toxicology, 2015, 116, 168-172.	1.2	21
40	Analysis of serum anion gap and osmolal gap in diagnosis and prognosis of acute methanol poisoning: clinical study in 86 patients. Monatshefte FÃ¼r Chemie, 2015, 146, 787-794.	0.9	21
41	Cognitive sequelae of methanol poisoning involve executive dysfunction and memory impairment in cross-sectional and long-term perspective. Alcohol, 2017, 59, 27-35.	0.8	21
42	Cost-effectiveness of hospital treatment and outcomes of acute methanol poisoning during the Czech Republic mass poisoning outbreak. Journal of Critical Care, 2017, 39, 190-198.	1.0	21
43	Visual evoked potentials in patients after methanol poisoning. International Journal of Occupational Medicine and Environmental Health, 2015, 29, 471-478.	0.6	21
44	Reduced vascular smooth muscle BK channel current underlies heart failureâ€induced vasoconstriction in mice. FASEB Journal, 2013, 27, 1859-1867.	0.2	20
45	Prevalence, dynamics, and biochemical predictors of optic nerve remyelination after methanol-induced acute optic neuropathy: a 2-year prospective study in 54 patients. Monatshefte FÃ¼r Chemie, 2016, 147, 239-249.	0.9	20
46	Clinical and genetic determinants of chronic visual pathway changes after methanol - induced optic neuropathy: four-year follow-up study. Clinical Toxicology, 2019, 57, 387-397.	0.8	20
47	Positive serum ethanol concentration on admission to hospital as the factor predictive of treatment outcome in acute methanol poisoning. Monatshefte FÃ¼r Chemie, 2017, 148, 409-419.	0.9	19
48	Intermittent versus continuous renal replacement therapy in acute methanol poisoning: comparison of clinical effectiveness in mass poisoning outbreaks. Annals of Intensive Care, 2017, 7, 77.	2.2	19
49	Factors predicting optic nerve axonal degeneration after methanol-induced acute optic neuropathy: a 2-year prospective study in 54 patients. Monatshefte FÃ¼r Chemie, 2016, 147, 251-261.	0.9	18
50	Heterogeneity of the action potential duration is required for sustained atrial fibrillation. JCI Insight, 2019, 4, .	2.3	17
51	Succesfull treatment of supralethal caffeine overdose with a combination of lipid infusion and dialysis. American Journal of Emergency Medicine, 2015, 33, 738.e5-738.e7.	0.7	15
52	Variation of drugs involved in acute drug toxicity presentations based on age and sex: an epidemiological approach based on European emergency departments. Clinical Toxicology, 2021, 59, 896-904.	0.8	15
53	Gait and Balance Impairment after Acute Methanol Poisoning. Basic and Clinical Pharmacology and Toxicology, 2018, 122, 176-182.	1.2	15
54	Occupational asthma follow-up â€" which markers are elevated in exhaled breath condensate and plasma?. International Journal of Occupational Medicine and Environmental Health, 2014, 27, 206-15.	0.6	14

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55	Neurological and Neurophysiological Findings in Workers with Chronic 2,3,7,8â€Tetrachlorodibenzoâ€p â€Dioxin Intoxication 50 Years After Exposure. Basic and Clinical Pharmacology and Toxicology, 2018, 122, 271-277.	1.2	14
56	Toxic Epidermal Necrolysis After Exposure to Dithiocarbamate Fungicide Mancozeb. Basic and Clinical Pharmacology and Toxicology, 2016, 118, 87-91.	1.2	13
57	Neuroinflammation markers and methyl alcohol induced toxic brain damage. Toxicology Letters, 2018, 298, 60-69.	0.4	13
58	Methanol Poisoning as an Acute Toxicological Basal Ganglia Lesion Model: Evidence from Brain Volumetry and Cognition. Alcoholism: Clinical and Experimental Research, 2019, 43, 1486-1497.	1.4	12
59	The impact of co-morbidities on a 6-year survival after methanol mass poisoning outbreak: possible role of metabolic formaldehyde. Clinical Toxicology, 2020, 58, 241-253.	0.8	12
60	Superfluidity in CH4-doped H2 nanoclusters. Journal of Chemical Physics, 2005, 122, 104301.	1.2	10
61	Analysis of Medication Errors of Health Care Providers on the Basis of Data from the Czech Toxicological Information Centre over an 11â€Year Period (2000â€“2010). Basic and Clinical Pharmacology and Toxicology, 2012, 110, 427-432.	1.2	10
62	Role of activation of lipid peroxidation in the mechanisms of acute methanol poisoning. Clinical Toxicology, 2018, 56, 893-903.	0.8	10
63	The Hypothesis of Circulus Hypoxicus and Its Clinical Relevance in Patients With Methanol Poisoning â€“ An Observational Study of 35 Patients. Basic and Clinical Pharmacology and Toxicology, 2018, 123, 749-755.	1.2	10
64	Markers of nucleic acids and proteins oxidation among office workers exposed to air pollutants including (nano)TiO2 particles. Neuroendocrinology Letters, 2016, 37, 13-16.	0.2	8
65	Is Chelation Therapy Efficient for the Treatment of Intravenous Metallic Mercury Intoxication?. Basic and Clinical Pharmacology and Toxicology, 2017, 120, 628-633.	1.2	7
66	Acute exposures to eâ€cigarettes and heatâ€notâ€burn products reported to the Czech Toxicological Information Centre over a 7â€year period (2012â€2018). Basic and Clinical Pharmacology and Toxicology, 2020, 127, 39-46.	1.2	7
67	A Multigrid Algorithm for Sampling Imaginary-Time Paths in Quantum Monte Carlo Simulations. Journal of Physical Chemistry B, 2004, 108, 6760-6766.	1.2	6
68	Aldehyde dehydrogenase 2 polymorphism affects the outcome of methanol poisoning in exposed humans. Clinical Genetics, 2018, 94, 445-449.	1.0	6
69	Health-related quality of life determinants in survivors of a mass methanol poisoning outbreak: six-year prospective cohort study. Clinical Toxicology, 2020, 58, 870-880.	0.8	6
70	MRI-based brain volumetry and retinal optical coherence tomography as the biomarkers of outcome in acute methanol poisoning. NeuroToxicology, 2020, 80, 12-19.	1.4	6
71	Detection and identification of engineered nanoparticles in exhaled breath condensate, blood serum, and urine of occupationally exposed subjects. Monatshefte FÃ¼r Chemie, 2019, 150, 511-523.	0.9	6
72	Public health response to methanol mass poisoning in the Czech Republic in 2012: a case study. Central European Journal of Public Health, 2019, 27, 29-39.	0.4	6

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73	Markers of oxidative stress in exhaled breath condensate are significantly increased in workers exposed to aerosol containing TiO2 nanoparticles. Toxicology Letters, 2014, 229, S12.	0.4	4
74	Markers of nucleic acids and proteins oxidative damage in acute methanol poisoning. Monatshefte FÃ¼r Chemie, 2019, 150, 477-487.	0.9	4
75	Eye hazard classification according to UN GHS / EU CLP and the severity of eye symptoms caused by accidental exposures to detergents and cleaning products. Regulatory Toxicology and Pharmacology, 2019, 105, 69-76.	1.3	4
76	Leukocyte telomere length is not affected by long-term occupational exposure to nano metal oxides. Industrial Health, 2019, 57, 741-744.	0.4	4
77	Peripheral polyneuropathy after acute methanol poisoning: Six-year prospective cohort study. NeuroToxicology, 2020, 79, 67-74.	1.4	4
78	Reactive carbonyl compounds, carbonyl stress, and neuroinflammation in methyl alcohol intoxication. Monatshefte FÃ¼r Chemie, 2019, 150, 1723-1730.	0.9	3
79	Formaldehyde Reacts with Amino Acids and Peptides with a Potential Role in Acute Methanol Intoxication. Journal of Analytical Toxicology, 2020, 44, 880-885.	1.7	3
80	Response to â€˜CYP2E1Polymorphism and Better Outcome After Methanol Poisoningâ€™. Basic and Clinical Pharmacology and Toxicology, 2015, 117, 3-4.	1.2	2
81	Advice to the European Commission as Regards Type and Criteria for Comprehensive Studies to Be Requested From Manufacturers: The Opinion of the Scientific Committee on Health, Environmental, and Emerging Risks (SCHEER). Nicotine and Tobacco Research, 2020, 22, 613-618.	1.4	2
82	Efficiency of ¹²³I-ioflupane SPECT as the marker of basal ganglia damage in acute methanol poisoning: 6-year prospective study. Clinical Toxicology, 2021, 59, 235-245.	0.8	2
83	Serum calcium and phosphorus concentrations and the outcome of calciphylaxis treatment with sodium thiosulfate. Monatshefte FÃ¼r Chemie, 2017, 148, 435-440.	0.9	1
84	Severe suicidal self-poisoning with massive dose of potassium ferricyanide(III): hyperkalemia but not free cyanide may cause death. Monatshefte FÃ¼r Chemie, 2018, 149, 1647-1651.	0.9	1
85	Can proteomics predict the prognosis in chronic dioxin intoxication?. Monatshefte FÃ¼r Chemie, 2019, 150, 1715-1722.	0.9	1
86	Estimation of long-term costs of postacute care in survivors of the methanol poisoning outbreak. BMJ Open, 2021, 11, e043037.	0.8	1
87	Cognitive changes after methanol exposure: Longitudinal perspective. Toxicology Letters, 2021, 349, 101-108.	0.4	1
88	The problems of a medical expertâ€™s testimony reliability assessment in medical malpractice cases. Romanian Journal of Legal Medicine, 2011, 19, 291-294.	0.3	1
89	The assessment of expert testimony relevance and admissibility in medical malpractice cases in the Czech Republic. Can American judicial practice help us?. Romanian Journal of Legal Medicine, 2011, 19, 59-68.	0.3	1
90	Identifying molecular mechanisms underlying PKC regulation of Cav1.2. Biophysical Journal, 2009, 96, 187a.	0.2	0

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91	Reply to â€œLetter in response to efficiency of acidemia correction on intermittent versus continuous hemodialysis in acute methanol poisoningâ€. Clinical Toxicology, 2017, 55, 306-307.	0.8	0
92	Reply. American Journal of Ophthalmology, 2018, 195, 247-248.	1.7	0
93	Authorsâ€™ reply to comment on â€œEpidemiology, clinical features and management of patients presenting to European emergency departments with acute cocaine toxicity: comparison between powder cocaine and crack cocaine casesâ€. Clinical Toxicology, 2020, 58, 72-74.	0.8	0
94	Efficacy Of Bendamustine and Rituximab In Patients With Relapsed/Refractory Chronic Lymphocytic Leukemia. Blood, 2013, 122, 5312-5312.	0.6	0
95	Elevated markers of lipid oxidative damage among workers exposed to engineered TiO₂nanoparticles. , 2016, , .		0
96	Markers of inflammation among workers exposed to engineered TiO₂nanoparticles. , 2016, , .		0