

# Eugene N Muratov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9391607/publications.pdf>

Version: 2024-02-01

126  
papers

8,742  
citations

61984

43  
h-index

46799

89  
g-index

149  
all docs

149  
docs citations

149  
times ranked

8955  
citing authors

#	ARTICLE	IF	CITATIONS
1	QSAR Modeling: Where Have You Been? Where Are You Going To?. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4977-5010.	6.4	1,401
2	Trust, But Verify: On the Importance of Chemical Structure Curation in Cheminformatics and QSAR Modeling Research. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 1189-1204.	5.4	611
3	QSAR without borders. <i>Chemical Society Reviews</i> , 2020, 49, 3525-3564.	38.1	427
4	QSAR-Based Virtual Screening: Advances and Applications in Drug Discovery. <i>Frontiers in Pharmacology</i> , 2018, 9, 1275.	3.5	291
5	Comprehensive characterization of the Published Kinase Inhibitor Set. <i>Nature Biotechnology</i> , 2016, 34, 95-103.	17.5	289
6	CERAPP: Collaborative Estrogen Receptor Activity Prediction Project. <i>Environmental Health Perspectives</i> , 2016, 124, 1023-1033.	6.0	264
7	Chalcone Derivatives: Promising Starting Points for Drug Design. <i>Molecules</i> , 2017, 22, 1210.	3.8	261
8	Does Rational Selection of Training and Test Sets Improve the Outcome of QSAR Modeling?. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 2570-2578.	5.4	232
9	Trust, but Verify II: A Practical Guide to Chemogenomics Data Curation. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1243-1252.	5.4	228
10	Materials Cartography: Representing and Mining Materials Space Using Structural and Electronic Fingerprints. <i>Chemistry of Materials</i> , 2015, 27, 735-743.	6.7	209
11	Applicability Domains for Classification Problems: Benchmarking of Distance to Models for Ames Mutagenicity Set. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 2094-2111.	5.4	202
12	Predicting Drug-Induced Hepatotoxicity Using QSAR and Toxicogenomics Approaches. <i>Chemical Research in Toxicology</i> , 2011, 24, 1251-1262.	3.3	190
13	Phantom PAINS: Problems with the Utility of Alerts for <u>P</u> an- <u>A</u> ssay <u>IN</u> terference Compound <u>S</u> . <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 417-427.	5.4	188
14	Modelling of compound combination effects and applications to efficacy and toxicity: state-of-the-art, challenges and perspectives. <i>Drug Discovery Today</i> , 2016, 21, 225-238.	6.4	162
15	Predâ€hERG: A Novel webâ€Accessible Computational Tool for Predicting Cardiac Toxicity. <i>Molecular Informatics</i> , 2015, 34, 698-701.	2.5	159
16	Curation of chemogenomics data. <i>Nature Chemical Biology</i> , 2015, 11, 535-535.	8.0	158
17	Application of Random Forest Approach to QSAR Prediction of Aquatic Toxicity. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 2481-2488.	5.4	147
18	Progress towards a public chemogenomic set for protein kinases and a call for contributions. <i>PLoS ONE</i> , 2017, 12, e0181585.	2.5	131

#	ARTICLE	IF	CITATIONS
19	A critical overview of computational approaches employed for COVID-19 drug discovery. <i>Chemical Society Reviews</i> , 2021, 50, 9121-9151.	38.1	128
20	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. <i>Environmental Health Perspectives</i> , 2020, 128, 27002.	6.0	120
21	Existing and Developing Approaches for QSAR Analysis of Mixtures. <i>Molecular Informatics</i> , 2012, 31, 202-221.	2.5	105
22	Data Set Modelability by QSAR. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1-4.	5.4	105
23	Alarms about structural alerts. <i>Green Chemistry</i> , 2016, 18, 4348-4360.	9.0	103
24	QSAR-driven design, synthesis and discovery of potent chalcone derivatives with antitubercular activity. <i>European Journal of Medicinal Chemistry</i> , 2017, 137, 126-138.	5.5	96
25	Hierarchic system of QSAR models (1D-4D) on the base of simplex representation of molecular structure. <i>Journal of Molecular Modeling</i> , 2005, 11, 457-467.	1.8	88
26	Tuning hERG Out: Antitarget QSAR Models for Drug Development. <i>Current Topics in Medicinal Chemistry</i> , 2014, 14, 1399-1415.	2.1	82
27	Pred-Skin: A Fast and Reliable Web Application to Assess Skin Sensitization Effect of Chemicals. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1013-1017.	5.4	79
28	Synergistic and Antagonistic Drug Combinations against SARS-CoV-2. <i>Molecular Therapy</i> , 2021, 29, 873-885.	8.2	78
29	Quantitative Structure-Activity Relationship Studies of [(Biphenyloxy)propyl]isoxazole Derivatives. Inhibitors of Human Rhinovirus 2 Replication. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 4205-4213.	6.4	73
30	Predicting chemically-induced skin reactions. Part I: QSAR models of skin sensitization and their application to identify potentially hazardous compounds. <i>Toxicology and Applied Pharmacology</i> , 2015, 284, 262-272.	2.8	72
31	Discovery of New Anti-Schistosomal Hits by Integration of QSAR-Based Virtual Screening and High Content Screening. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 7075-7088.	6.4	67
32	QSAR Modeling and Prediction of Drug-Drug Interactions. <i>Molecular Pharmaceutics</i> , 2016, 13, 545-556.	4.6	65
33	CATMoS: Collaborative Acute Toxicity Modeling Suite. <i>Environmental Health Perspectives</i> , 2021, 129, 47013.	6.0	63
34	Per aspera ad astra: application of Simplex QSAR approach in antiviral research. <i>Future Medicinal Chemistry</i> , 2010, 2, 1205-1226.	2.3	58
35	Universal Approach for Structural Interpretation of QSAR/QSPR Models. <i>Molecular Informatics</i> , 2013, 32, 843-853.	2.5	57
36	Chemical toxicity prediction for major classes of industrial chemicals: Is it possible to develop universal models covering cosmetics, drugs, and pesticides?. <i>Food and Chemical Toxicology</i> , 2018, 112, 526-534.	3.6	57

#	ARTICLE	IF	CITATIONS
37	QSAR Modeling of SARS-CoV-2 Inhibitors Identifies Sufugolix, Cenicriviroc, Proglumetacin, and other Drugs as Candidates for Repurposing against SARS-CoV-2. <i>Molecular Informatics</i> , 2021, 40, e2000113.	2.5	57
38	Predicting chemically-induced skin reactions. Part II: QSAR models of skin permeability and the relationships between skin permeability and skin sensitization. <i>Toxicology and Applied Pharmacology</i> , 2015, 284, 273-280.	2.8	53
39	Conditional Toxicity Value (CTV) Predictor: An <i>In Silico</i> Approach for Generating Quantitative Risk Estimates for Chemicals. <i>Environmental Health Perspectives</i> , 2018, 126, 057008.	6.0	52
40	Open drug discovery for the Zika virus. <i>F1000Research</i> , 2016, 5, 150.	1.6	50
41	QSAR-Driven Discovery of Novel Chemical Scaffolds Active against <i>Schistosoma mansoni</i> . <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1357-1372.	5.4	47
42	Chembench: A Publicly Accessible, Integrated Cheminformatics Portal. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 105-108.	5.4	47
43	Gelatin/carboxymethyl cellulose mucoadhesive films with lysozyme: Development and characterization. <i>Carbohydrate Polymers</i> , 2016, 147, 208-215.	10.2	45
44	Multi-Descriptor Read Across (MuDRA): A Simple and Transparent Approach for Developing Accurate Quantitative Structure-Activity Relationship Models. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1214-1223.	5.4	43
45	QSAR models of human data can enrich or replace LLNA testing for human skin sensitization. <i>Green Chemistry</i> , 2016, 18, 6501-6515.	9.0	42
46	The effects of characteristics of substituents on toxicity of the nitroaromatics: HiT QSAR study. <i>Journal of Computer-Aided Molecular Design</i> , 2008, 22, 747-759.	2.9	41
47	S <sub>TopTox</sub> : An <i>In Silico</i> Alternative to Animal Testing for Acute Systemic and Topical Toxicity. <i>Environmental Health Perspectives</i> , 2022, 130, 27012.	6.0	38
48	Application of Random Forest and Multiple Linear Regression Techniques to QSPR Prediction of an Aqueous Solubility for Military Compounds. <i>Molecular Informatics</i> , 2010, 29, 394-406.	2.5	37
49	Chemotext: A Publicly Available Web Server for Mining Drug-Target-Disease Relationships in PubMed. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 212-218.	5.4	36
50	A Perspective and a New Integrated Computational Strategy for Skin Sensitization Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2845-2859.	6.7	35
51	Large-Scale Modeling of Multispecies Acute Toxicity End Points Using Consensus of Multitask Deep Learning Methods. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 653-663.	5.4	35
52	Cheminformatics-driven discovery of polymeric micelle formulations for poorly soluble drugs. <i>Science Advances</i> , 2019, 5, eaav9784.	10.3	34
53	Deep Learning-driven research for drug discovery: Tackling Malaria. <i>PLoS Computational Biology</i> , 2020, 16, e1007025.	3.2	34
54	The analysis of structure-anticancer and antiviral activity relationships for macrocyclic pyridinophanes and their analogues on the basis of 4D QSAR models (simplex representation of)		

#	ARTICLE	IF	CITATIONS
55	Recent progress on cheminformatics approaches to epigenetic drug discovery. <i>Drug Discovery Today</i> , 2020, 25, 2268-2276.	6.4	33
56	Computer-Aided Discovery and Characterization of Novel Ebola Virus Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3582-3594.	6.4	32
57	Pred-Skin: A Web Portal for Accurate Prediction of Human Skin Sensitizers. <i>Chemical Research in Toxicology</i> , 2021, 34, 258-267.	3.3	32
58	Application of Quantum Chemical Approximations to Environmental Problems: Prediction of Water Solubility for Nitro Compounds. <i>Environmental Science &amp; Technology</i> , 2009, 43, 9208-9215.	10.0	30
59	Computationally-guided drug repurposing enables the discovery of kinase targets and inhibitors as new schistosomicidal agents. <i>PLoS Computational Biology</i> , 2018, 14, e1006515.	3.2	29
60	Learning from history: do not flatten the curve of antiviral research!. <i>Drug Discovery Today</i> , 2020, 25, 1604-1613.	6.4	26
61	Discovery of new potent hits against intracellular <i>Trypanosoma cruzi</i> by QSAR-based virtual screening. <i>European Journal of Medicinal Chemistry</i> , 2019, 163, 649-659.	5.5	25
62	Oy Vey! A Comment on "Machine Learning of Toxicological Big Data Enables Read-Across Structure Activity Relationships Outperforming Animal Test Reproducibility". <i>Toxicological Sciences</i> , 2019, 167, 3-4.	3.1	24
63	Computer-aided discovery of two novel chalcone-like compounds active and selective against <i>Leishmania infantum</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2459-2464.	2.2	23
64	Virtual Screening and Molecular Design Based on Hierarchical Qsar Technology. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010, , 127-176.	0.6	23
65	Expanding the scope of drug repurposing in pediatrics: The Children's Pharmacy Collaborative. <i>Drug Discovery Today</i> , 2014, 19, 1696-1698.	6.4	22
66	QSAR-Driven Design and Discovery of Novel Compounds With Antiplasmodial and Transmission Blocking Activities. <i>Frontiers in Pharmacology</i> , 2018, 9, 146.	3.5	22
67	SCAM Detective: Accurate Predictor of Small, Colloidally Aggregating Molecules. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 4056-4063.	5.4	21
68	Predicting Binding Affinity of CSAR Ligands Using Both Structure-Based and Ligand-Based Approaches. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 1915-1922.	5.4	20
69	Curated Data In "Trustworthy In Silico" Models Out: The Impact of Data Quality on the Reliability of Artificial Intelligence Models as Alternatives to Animal Testing. <i>ATLA Alternatives To Laboratory Animals</i> , 2021, 49, 73-82.	1.0	20
70	QSAR analysis of poliovirus inhibition by dual combinations of antivirals. <i>Structural Chemistry</i> , 2013, 24, 1665-1679.	2.0	19
71	Modern approaches to accelerate discovery of new antischistosomal drugs. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 557-567.	5.0	19
72	Development of Web and Mobile Applications for Chemical Toxicity Prediction. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	18

#	ARTICLE	IF	CITATIONS
73	New QSPR equations for prediction of aqueous solubility for military compounds. <i>Chemosphere</i> , 2010, 79, 887-890.	8.2	17
74	QSAR analysis of [(biphenyloxy)propyl]isoxazoles: agents against coxsackievirus B3. <i>Future Medicinal Chemistry</i> , 2011, 3, 15-27.	2.3	17
75	The Sistemax Web Portal of Natural Products: An Update. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2516-2522.	5.4	17
76	Simplex representation of molecular structure as universal QSAR/QSPR tool. <i>Structural Chemistry</i> , 2021, 32, 1365-1392.	2.0	17
77	Virtual Screening of Natural Products Database. <i>Mini-Reviews in Medicinal Chemistry</i> , 2021, 21, 2657-2730.	2.4	17
78	Computer-Assisted Decision Support for Student Admissions Based on Their Predicted Academic Performance. <i>American Journal of Pharmaceutical Education</i> , 2017, 81, 46.	2.1	16
79	Unveiling the Kinomes of <i>Leishmania infantum</i> and <i>L. braziliensis</i> Empowers the Discovery of New Kinase Targets and Antileishmanial Compounds. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 352-361.	4.1	16
80	Synthesis and Structure-Activity Relationships of DCLK1 Kinase Inhibitors Based on a 5,11-Dihydro-6H-benzo[e]pyrimido[5,4-b][1,4]diazepin-6-one Scaffold. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 7817-7826.	6.4	16
81	QSAR Modeling for Multi-Target Drug Discovery: Designing Simultaneous Inhibitors of Proteins in Diverse Pathogenic Parasites. <i>Frontiers in Chemistry</i> , 2021, 9, 634663.	3.6	16
82	COVID-KOP: integrating emerging COVID-19 data with the ROBOKOP database. <i>Bioinformatics</i> , 2021, 37, 586-587.	4.1	15
83	Knowledge-based approaches to drug discovery for rare diseases. <i>Drug Discovery Today</i> , 2022, 27, 490-502.	6.4	15
84	Short Communication: Cheminformatics Analysis to Identify Predictors of Antiviral Drug Penetration into the Female Genital Tract. <i>AIDS Research and Human Retroviruses</i> , 2014, 30, 1058-1064.	1.1	14
85	Quantitative Structure-Activity Relationship Modeling and Docking of Monoterpenes with Insecticidal Activity Against <i>Reticulitermes chinensis</i> Snyder and <i>Drosophila melanogaster</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4687-4698.	5.2	14
86	Conserved coronavirus proteins as targets of broad-spectrum antivirals. <i>Antiviral Research</i> , 2022, 204, 105360.	4.1	13
87	Modelability Criteria: Statistical Characteristics Estimating Feasibility to Build Predictive QSAR Models for a Dataset. , 2014, , 187-230.		11
88	Computational assessment of environmental hazards of nitroaromatic compounds: influence of the type and position of aromatic ring substituents on toxicity. <i>Structural Chemistry</i> , 2016, 27, 191-198.	2.0	11
89	Computer-Aided Discovery of New Solubility-Enhancing Drug Delivery System. <i>Biomolecules</i> , 2020, 10, 913.	4.0	10
90	Quantitative high-throughput phenotypic screening of pediatric cancer cell lines identifies multiple opportunities for drug repurposing. <i>Oncotarget</i> , 2018, 9, 4758-4772.	1.8	10

#	ARTICLE	IF	CITATIONS
91	The analysis of structure-anticancer and antiviral activity relationships for macrocyclic pyridinophanes and their analogues on the basis of 4D QSAR models (simplex representation of) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	0
92	BeeToxAI: An artificial intelligence-based web app to assess acute toxicity of chemicals to honey bees. Artificial Intelligence in the Life Sciences, 2021, 1, 100013.	2.2	8
93	Chemistry-Wide Association Studies (CWAS): A Novel Framework for Identifying and Interpreting Structure-Activity Relationships. Journal of Chemical Information and Modeling, 2018, 58, 2203-2213.	5.4	7
94	Development and characterization of chitosan/polyvinyl alcohol polymer material with elastolytic and collagenolytic activities. Enzyme and Microbial Technology, 2020, 132, 109399.	3.2	7
95	Computer-assisted discovery of compounds with insecticidal activity against Musca domestica and Mythimna separata. Food and Chemical Toxicology, 2021, 147, 111899.	3.6	7
96	Natural Bioactive Products with Antioxidant Properties Useful in Neurodegenerative Diseases 2020. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-2.	4.0	7
97	QUIMIOINFORMÁTICA: UMA INTRODUÇÃO. Química Nova, 0, , .	0.3	7
98	Computer-Assisted Discovery of Alkaloids with Schistosomicidal Activity. Current Issues in Molecular Biology, 2022, 44, 383-408.	2.4	7
99	Novel computational models offer alternatives to animal testing for assessing eye irritation and corrosion potential of chemicals. Artificial Intelligence in the Life Sciences, 2021, 1, 100028.	2.2	7
100	Computational drug discovery for the Zika virus. Brazilian Journal of Pharmaceutical Sciences, 2018, 54, .	1.2	6
101	Modernization of Enoxaparin Molecular Weight Determination Using Homogeneous Standards. Pharmaceuticals, 2017, 10, 66.	3.8	5
102	Discovery of Alternative Chemotherapy Options for Leishmaniasis through Computational Studies of Asteraceae. ChemMedChem, 2021, 16, 1234-1245.	3.2	5
103	ZINC Express: A Virtual Assistant for Purchasing Compounds Annotated in the ZINC Database. Journal of Chemical Information and Modeling, 2021, 61, 1033-1036.	5.4	5
104	COVID-19 Knowledge Extractor (COKE): A Curated Repository of Drug-Target Associations Extracted from the COVID-19 Corpus of Scientific Publications on COVID-19. Journal of Chemical Information and Modeling, 2021, , .	5.4	5
105	Defining clinical outcome pathways. Drug Discovery Today, 2022, 27, 1671-1678.	6.4	5
106	Chalcones as a basis for computer-aided drug design: innovative approaches to tackle malaria. Future Medicinal Chemistry, 2019, 11, 2635-2646.	2.3	4
107	Mining Complex Biomedical Literature for Actionable Knowledge on Rare Diseases. Human Perspectives in Health Sciences and Technology, 2020, , 77-94.	0.4	4
108	Natural Products as Potential Agents against SARS-CoV and SARSCoV- 2. Current Medicinal Chemistry, 2021, 28, 5498-5526.	2.4	4

#	ARTICLE	IF	CITATIONS
109	Computer-Assisted Design of Thiophene-Indole Hybrids as Leishmanial Agents. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 1704-1719.	2.1	4
110	HiT QSAR Study of Antiviral <sup>TM</sup> Bioavailability. <i>Antiviral Research</i> , 2009, 82, A56.	4.1	3
111	Predicting Adverse Drug Effects from Literature- and Database-Mined Assertions. <i>Drug Safety</i> , 2018, 41, 1059-1072.	3.2	3
112	Shortcuts to schistosomiasis drug discovery: The state-of-the-art. <i>Annual Reports in Medicinal Chemistry</i> , 2019, , 139-180.	0.9	3
113	Chemical safety assessment of transformation products of landfill leachate formed during the Fenton process. <i>Journal of Hazardous Materials</i> , 2021, 419, 126438.	12.4	3
114	Allosteric Binders of ACE2 Are Promising Anti-SARS-CoV-2 Agents. <i>ACS Pharmacology and Translational Science</i> , 2022, 5, 468-478.	4.9	3
115	Four diterpenes identified <i>in silico</i> were isolated from Hyptidinae and demonstrated <i>in vitro</i> activity against <i>Mycobacterium tuberculosis</i> . <i>Natural Product Research</i> , 2023, 37, 903-911.	1.8	3
116	New Advances in QSPR/QSAR Analysis of Nitrocompounds: Solubility, Lipophilicity, and Toxicity. , 2012, , 279-334.		2
117	Activity prediction and identification of misannotated chemical compounds using extreme descriptors. <i>Journal of Chemometrics</i> , 2016, 30, 99-108.	1.3	2
118	Secondary Metabolites Extracted from Annonaceae and Chemotaxonomy Study of Terpenoids. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	2
119	Recent Studies on Neglected Drug Design. <i>Current Topics in Medicinal Chemistry</i> , 2021, 21, 1943-1974.	2.1	2
120	Automated Framework for Developing Predictive Machine Learning Models for Data-Driven Drug Discovery. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	1
121	New Experimental and Computational Tools for Drug Discovery. - Part-VII. <i>Current Topics in Medicinal Chemistry</i> , 2019, 19, 898-899.	2.1	0
122	Editorial: Cheminformatics Approaches in Drug Discovery for Neglected Tropical Diseases. <i>Frontiers in Chemistry</i> , 2021, 9, 719223.	3.6	0
123	Selenium and Computational Studies. <i>Mini-Reviews in Medicinal Chemistry</i> , 2021, 21, 1865-1887.	2.4	0
124	Dataset Modelability by QSAR: Continuous Response Variable. , 2022, , 233-253.		0
125	New Experimental and Computational Tools for Drug Discovery - Part-VIII. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 277-279.	2.1	0
126	Natural Products from Annonaceae as Potential Antichagasic Agents. <i>ChemMedChem</i> , 2022, 17, .	3.2	0