

Alexandre Varnek

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209
papers

6,608
citations

39
h-index

74
g-index

242
ext. papers

7,744
ext. citations

4.7
avg, IF

5.79
L-index

#	Paper	IF	Citations
209	Exploration of the chemical space of DNA-encoded libraries.. <i>Molecular Informatics</i> , 2022 ,	3.8	1
208	Molecular Similarity Perception Based on Machine-Learning Models. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6114	6.3	
207	NP Navigator: A New Online Tool for the Exploration of the Natural Products Chemical Space. <i>Medical Sciences Forum</i> , 2021 , 7, 1		
206	Atom-to-atom Mapping: A Benchmarking Study of Popular Mapping Algorithms and Consensus Strategies. <i>Molecular Informatics</i> , 2021 , e2100138	3.8	2
205	Chemoinformatics-Driven Design of New Physical Solvents for Selective CO Absorption. <i>Environmental Science & Technology</i> , 2021 , 55, 15542-15553	10.3	1
204	SynthI: A New Open-Source Tool for Synthron-Based Library Design. <i>Journal of Chemical Information and Modeling</i> , 2021 ,	6.1	3
203	CATMoS: Collaborative Acute Toxicity Modeling Suite. <i>Environmental Health Perspectives</i> , 2021 , 129, 47013	8.4	14
202	NP Navigator: A New Look at the Natural Product Chemical Space. <i>Molecular Informatics</i> , 2021 , 40, e2100058	3.8	9
201	Computer-Aided Design of New Physical Solvents for Hydrogen Sulfide Absorption. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8588-8596	3.9	4
200	DMSO Solubility Assessment for Fragment-Based Screening. <i>Molecules</i> , 2021 , 26,	4.8	2
199	Visualization and Analysis of the REACH-chemical Space with Generative Topographic Mapping. <i>Molecular Informatics</i> , 2021 , 40, e2000232	3.8	1
198	Chemography: Searching for Hidden Treasures. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 179-188	6.1	8
197	Combined Graph/Relational Database Management System for Calculated Chemical Reaction Pathway Data. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 554-559	6.1	2
196	Modern Trends in Chemical Reactions Modeling 2021 , 190-197		
195	Cross-validation strategies in QSPR modelling of chemical reactions. <i>SAR and QSAR in Environmental Research</i> , 2021 , 32, 207-219	3.5	2
194	Discovery of novel chemical reactions by deep generative recurrent neural network. <i>Scientific Reports</i> , 2021 , 11, 3178	4.9	11
193	Reaction Data Curation I: Chemical Structures and Transformations Standardization. <i>Molecular Informatics</i> , 2021 , 40, e2100119	3.8	3

192	QSAR Modeling Based on Conformation Ensembles Using a Multi-Instance Learning Approach. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4913-4923	6.1	2
191	A critical overview of computational approaches employed for COVID-19 drug discovery. <i>Chemical Society Reviews</i> , 2021 , 50, 9121-9151	58.5	36
190	Endocrine disruption: the noise in available data adversely impacts the models' performance. <i>SAR and QSAR in Environmental Research</i> , 2021 , 32, 111-131	3.5	0
189	Machine learning modelling of chemical reaction characteristics: yesterday, today, tomorrow. <i>Mendeleev Communications</i> , 2021 , 31, 769-780	1.9	0
188	Pre-Steady-State Kinetics of the SARS-CoV-2 Main Protease as a Powerful Tool for Antiviral Drug Discovery.. <i>Frontiers in Pharmacology</i> , 2021 , 12, 773198	5.6	1
187	A Close-up Look at the Chemical Space of Commercially Available Building Blocks for Medicinal Chemistry.. <i>Journal of Chemical Information and Modeling</i> , 2021 ,	6.1	5
186	A Chemographic Audit of anti-Coronavirus Structure-activity Information from Public Databases (ChEMBL). <i>Molecular Informatics</i> , 2020 , 39, e2000080	3.8	8
185	"Big Data" Fast Chemoinformatics Model to Predict Generalized Born Radius and Solvent Accessibility as a Function of Geometry. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 2951-2965	6.1	6
184	Publicly available QSPR models for environmental media persistence. <i>SAR and QSAR in Environmental Research</i> , 2020 , 31, 493-510	3.5	1
183	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. <i>Environmental Health Perspectives</i> , 2020 , 128, 27002	8.4	70
182	Application of the mol2vec Technology to Large-size Data Visualization and Analysis. <i>Molecular Informatics</i> , 2020 , 39, e1900170	3.8	5
181	Modelling of ready biodegradability based on combined public and industrial data sources. <i>SAR and QSAR in Environmental Research</i> , 2020 , 31, 171-186	3.5	8
180	Parallel Generative Topographic Mapping: An Efficient Approach for Big Data Handling. <i>Molecular Informatics</i> , 2020 , 39, e2000009	3.8	2
179	QSAR without borders. <i>Chemical Society Reviews</i> , 2020 , 49, 3525-3564	58.5	196
178	QSPR Modeling of Potentiometric Mg ²⁺ /Ca ²⁺ Selectivity for PVC-plasticized Sensor Membranes. <i>Electroanalysis</i> , 2020 , 32, 792-798	3	4
177	Thermodynamic radii of lanthanide ions derived from metal-ligand complexes stability constants. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020 , 98, 69-78	1.7	2
176	Trustworthiness, the Key to Grid-Based Map-Driven Predictive Model Enhancement and Applicability Domain Control. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 6020-6032	6.1	1
175	Comprehensive Analysis of Applicability Domains of QSPR Models for Chemical Reactions. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8

174	Autoignition temperature: comprehensive data analysis and predictive models. <i>SAR and QSAR in Environmental Research</i> , 2020 , 31, 597-613	3.5	2
173	Consensus QSAR models estimating acute toxicity to aquatic organisms from different trophic levels: algae, and fish. <i>SAR and QSAR in Environmental Research</i> , 2020 , 31, 655-675	3.5	8
172	Diversifying chemical libraries with generative topographic mapping. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 805-815	4.2	5
171	Sydnone-alkyne cycloaddition: Which factors are responsible for reaction rate ?. <i>Journal of Molecular Structure</i> , 2019 , 1198, 126897	3.4	3
170	QSPR modeling of potentiometric sensitivity towards heavy metal ions for polymeric membrane sensors. <i>Sensors and Actuators B: Chemical</i> , 2019 , 301, 126941	8.5	7
169	Generative Topographic Mapping of the Docking Conformational Space. <i>Molecules</i> , 2019 , 24,	4.8	4
168	QSPR models for bioconcentration factor (BCF): are they able to predict data of industrial interest?. <i>SAR and QSAR in Environmental Research</i> , 2019 , 30, 507-524	3.5	8
167	In silico Design, Virtual Screening and Synthesis of Novel Electrolytic Solvents. <i>Molecular Informatics</i> , 2019 , 38, e1900014	3.8	4
166	Serum-based differentiation between multiple sclerosis and amyotrophic lateral sclerosis by Random Forest classification of FTIR spectra. <i>Analyst, The</i> , 2019 , 144, 4647-4652	5	10
165	CGRtools: Python Library for Molecule, Reaction, and Condensed Graph of Reaction Processing. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 2516-2521	6.1	17
164	Prediction of the Glass-Transition Temperatures of Linear Homo/Heteropolymers and Cross-Linked Epoxy Resins. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1430-1442	4.3	13
163	CovaDOTS: In Silico Chemistry-Driven Tool to Design Covalent Inhibitors Using a Linking Strategy. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 1472-1485	6.1	11
162	Classification of Metal Binders by Naïve Bayes Classifier on the Base of Molecular Fragment Descriptors and Ensemble Modeling. <i>Molecular Informatics</i> , 2019 , 38, e1900002	3.8	4
161	Getting to Know the Neighbours with GTM: The Case of Antiviral Compounds. <i>Molecular Informatics</i> , 2019 , 38, e1800166	3.8	5
160	Multi-task generative topographic mapping in virtual screening. <i>Journal of Computer-Aided Molecular Design</i> , 2019 , 33, 331-343	4.2	12
159	Predictive Models for Kinetic Parameters of Cycloaddition Reactions. <i>Molecular Informatics</i> , 2019 , 38, e1800077	3.8	16
158	Consensus models to predict oral rat acute toxicity and validation on a dataset coming from the industrial context. <i>SAR and QSAR in Environmental Research</i> , 2019 , 30, 879-897	3.5	12
157	Conjugated Quantitative Structure-Property Relationship Models: Application to Simultaneous Prediction of Tautomeric Equilibrium Constants and Acidity of Molecules. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 4569-4576	6.1	4

156	An Investigation into the Stephens-Castro Synthesis of Dehydrotriaryl[12]annulenes: Factors Influencing the Cyclotrimerization. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 6783-6795	3.2	1
155	[Special Issue for Honor Award dedicating to Prof Kimito Funatsu]Kimito Funatsu [Driving Force of Japanese-French Collaboration in Chemoinformatics. <i>Journal of Computer Aided Chemistry</i> , 2019 , 20, 47-49	0.2	
154	De Novo Molecular Design by Combining Deep Autoencoder Recurrent Neural Networks with Generative Topographic Mapping. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 1182-1196	6.1	56
153	Generative topographic mapping in drug design. <i>Drug Discovery Today: Technologies</i> , 2019 , 32-33, 99-107	7.1	8
152	Virtual Screening with Generative Topographic Maps: How Many Maps Are Required?. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 564-572	6.1	13
151	Bimolecular Nucleophilic Substitution Reactions: Predictive Models for Rate Constants and Molecular Reaction Pairs Analysis. <i>Molecular Informatics</i> , 2019 , 38, e1800104	3.8	13
150	Pros and cons of virtual screening based on public "Big Data": In silico mining for new bromodomain inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019 , 165, 258-272	6.8	10
149	Evolution of commercially available compounds for HTS. <i>Drug Discovery Today</i> , 2019 , 24, 390-402	8.8	27
148	Assessment of tautomer distribution using the condensed reaction graph approach. <i>Journal of Computer-Aided Molecular Design</i> , 2018 , 32, 401-414	4.2	16
147	Prediction of Aromatic Hydroxylation Sites for Human CYP1A2 Substrates Using Condensed Graph of Reactions. <i>BioNanoScience</i> , 2018 , 8, 384-389	3.4	3
146	Monitoring of the Conformational Space of Dipeptides by Generative Topographic Mapping. <i>Molecular Informatics</i> , 2018 , 37, 1700115	3.8	3
145	Transductive Ridge Regression in Structure-activity Modeling. <i>Molecular Informatics</i> , 2018 , 37, 1700112	3.8	2
144	Visualization and Analysis of Complex Reaction Data: The Case of Tautomeric Equilibria. <i>Molecular Informatics</i> , 2018 , 37, e1800056	3.8	6
143	AntiMalarial Mode of Action (AMMA) Database: Data Selection, Verification and Chemical Space Analysis. <i>Molecular Informatics</i> , 2018 , 37, e1800021	3.8	3
142	Integrated Strategy for Lead Optimization Based on Fragment Growing: The Diversity-Oriented-Target-Focused-Synthesis Approach. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 5719-5732	8.3	35
141	Mapping of the Available Chemical Space versus the Chemical Universe of Lead-Like Compounds. <i>ChemMedChem</i> , 2018 , 13, 540-554	3.7	28
140	Rescoring of docking poses under Occam's Razor: are there simpler solutions?. <i>Journal of Computer-Aided Molecular Design</i> , 2018 , 32, 877-888	4.2	14
139	Generative Topographic Mapping of Conformational Space. <i>Molecular Informatics</i> , 2017 , 36, 1700036	3.8	9

138	Privileged Structural Motif Detection and Analysis Using Generative Topographic Maps. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 1218-1232	6.1	6
137	Cross-Validation and the Variable Selection Bias 2017 , 163-173		0
136	3D Pharmacophore Modeling Techniques in Computer-Aided Molecular Design Using LigandScout 2017 , 279-309		8
135	Data Visualization and Analysis Using Kohonen Self-Organizing Maps 2017 , 119-126		1
134	QSPR Models on Fragment Descriptors 2017 , 135-162		3
133	Virtual screening, synthesis and biological evaluation of DNA intercalating antiviral agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3915-3919	2.9	5
132	QSAR modeling and chemical space analysis of antimalarial compounds. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 441-451	4.2	11
131	From bird's eye views to molecular communities: two-layered visualization of structure-activity relationships in large compound data sets. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 961-977	4.2	4
130	A Direct One-Pot Synthesis of Asymmetric Dehydrobenzopyrido[12]annulenes and Their Physicochemical Properties. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 4625-4632	3.2	1
129	Neighboring Structure Visualization on a Grid-based Layout. <i>Molecular Informatics</i> , 2017 , 36, 1700047	3.8	
128	Structure-reactivity modeling using mixture-based representation of chemical reactions. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 829-839	4.2	20
127	Artificial intelligence in synthetic chemistry: achievements and prospects. <i>Russian Chemical Reviews</i> , 2017 , 86, 1127-1156	6.8	37
126	Predictive cartography of metal binders using generative topographic mapping. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 701-714	4.2	4
125	Generative Topographic Mapping Approach to Chemical Space Analysis. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2017 , 167-199	0.7	4
124	Prediction of Activity Cliffs Using Condensed Graphs of Reaction Representations, Descriptor Recombination, Support Vector Machine Classification, and Support Vector Regression. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1631-40	6.1	18
123	Predictive Models for the Free Energy of Hydrogen Bonded Complexes with Single and Cooperative Hydrogen Bonds. <i>Molecular Informatics</i> , 2016 , 35, 629-638	3.8	9
122	Chemical Space Mapping and Structure-Activity Analysis of the ChEMBL Antiviral Compound Set. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1438-54	6.1	26
121	Structural and Physico-Chemical Interpretation (SPCI) of QSAR Models and Its Comparison with Matched Molecular Pair Analysis. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1455-69	6.1	27

120	Generative Topographic Mapping Approach to Chemical Space Analysis. <i>ACS Symposium Series</i> , 2016 , 211-241	0.4	10
119	Automatized Assessment of Protective Group Reactivity: A Step Toward Big Reaction Data Analysis. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 2140-2148	6.1	30
118	Redox Polypharmacology as an Emerging Strategy to Combat Malarial Parasites. <i>ChemMedChem</i> , 2016 , 11, 1339-51	3.7	21
117	Predictive Models for Halogen-bond Basicity of Binding Sites of Polyfunctional Molecules. <i>Molecular Informatics</i> , 2016 , 35, 70-80	3.8	10
116	Kernel Target Alignment Parameter: A New Modelability Measure for Regression Tasks. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 6-11	6.1	11
115	CERAPP: Collaborative Estrogen Receptor Activity Prediction Project. <i>Environmental Health Perspectives</i> , 2016 , 124, 1023-33	8.4	206
114	In Silico Mining for Antimalarial Structure-Activity Knowledge and Discovery of Novel Antimalarial Curcuminoids. <i>Molecules</i> , 2016 , 21,	4.8	14
113	Generative Topographic Mapping Approach to Modeling and Chemical Space Visualization of Human Intestinal Transporters. <i>BioNanoScience</i> , 2016 , 6, 464-472	3.4	6
112	Visualization of a Multidimensional Descriptor Space. <i>ACS Symposium Series</i> , 2016 , 243-267	0.4	4
111	Prediction of Optimal Salinities for Surfactant Formulations Using a Quantitative Structure-Property Relationships Approach. <i>Energy & Fuels</i> , 2015 , 29, 4281-4288	4.1	10
110	Stargate GTM: Bridging Descriptor and Activity Spaces. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 2403-10	6.1	26
109	Design, Virtual Screening, and Synthesis of β -Blockers as Antiplatelet Agents. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 7681-94	8.3	18
108	Chemical data visualization and analysis with incremental generative topographic mapping: big data challenge. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 84-94	6.1	56
107	Continuous indicator fields: a novel universal type of molecular fields. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 233-47	4.2	3
106	S4MPLE--Sampler for Multiple Protein-Ligand Entities: Methodology and Rigid-Site Docking Benchmarking. <i>Molecules</i> , 2015 , 20, 8997-9028	4.8	21
105	Structure-activity relationship in bimolecular elimination reactions based on the condensed graph of a reaction. <i>Journal of Structural Chemistry</i> , 2015 , 56, 1227-1234	0.9	19
104	Mappability of drug-like space: towards a polypharmacologically competent map of drug-relevant compounds. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 1087-108	4.2	41
103	Electrochemical properties of substituted 2-methyl-1,4-naphthoquinones: redox behavior predictions. <i>Chemistry - A European Journal</i> , 2015 , 21, 3415-24	4.8	24

102	Expert system for predicting reaction conditions: the Michael reaction case. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 239-50	6.1	40
101	GTM-Based QSAR Models and Their Applicability Domains. <i>Molecular Informatics</i> , 2015 , 34, 348-56	3.8	48
100	Prediction of drug induced liver injury using molecular and biological descriptors. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2015 , 18, 315-22	1.3	20
99	Computational chemogenomics: is it more than inductive transfer?. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 597-618	4.2	26
98	QSPR ensemble modelling of the 1:1 and 1:2 complexation of Co ^{II} , Ni ^{II} , and Cu ^{II} with organic ligands: relationships between stability constants. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 549-64	4.2	15
97	QSAR modeling: where have you been? Where are you going to?. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 4977-5010	8.3	996
96	Individual Hydrogen-Bond Strength QSPR Modelling with ISIDA Local Descriptors: a Step Towards Polyfunctional Molecules. <i>Molecular Informatics</i> , 2014 , 33, 477-87	3.8	16
95	Design of a general-purpose European compound screening library for EU-OPENSREEN. <i>ChemMedChem</i> , 2014 , 9, 2309-26	3.7	21
94	Quantitative structure-property relationship modeling: a valuable support in high-throughput screening quality control. <i>Analytical Chemistry</i> , 2014 , 86, 2510-20	7.8	14
93	Structure-reactivity relationships in terms of the condensed graphs of reactions. <i>Russian Journal of Organic Chemistry</i> , 2014 , 50, 459-463	0.7	24
92	Simple Ligand-Receptor Interaction Descriptor (SILIRID) for alignment-free binding site comparison. <i>Computational and Structural Biotechnology Journal</i> , 2014 , 10, 33-7	6.8	15
91	Development of Structure-property models in nucleophilic substitution reactions involving azides. <i>Journal of Structural Chemistry</i> , 2014 , 55, 1026-1032	0.9	14
90	An Evolutionary Optimizer of libsvm Models. <i>Challenges</i> , 2014 , 5, 450-472	3.4	40
89	Synthesis, biological evaluation, X-ray molecular structure and molecular docking studies of RGD mimetics containing 6-amino-2,3-dihydroisindolin-1-one fragment as ligands of integrin $\alpha_5\beta_1$. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 4646-61	3.4	6
88	Generative topographic mapping-based classification models and their applicability domain: application to the biopharmaceutics Drug Disposition Classification System (BDDCS). <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 3318-25	6.1	53
87	Estimation of the size of drug-like chemical space based on GDB-17 data. <i>Journal of Computer-Aided Molecular Design</i> , 2013 , 27, 675-9	4.2	184
86	Synthesis of a strained acetylenic macrocycle incorporating a para-oligo[2]cruciform bridge bent over nanoscopic dimensions: structural, electronic, spectroscopic, and ion-sensing properties. <i>Chemistry - A European Journal</i> , 2013 , 19, 12336-49	4.8	7
85	Transductive Support Vector Machines: Promising Approach to Model Small and Unbalanced Datasets. <i>Molecular Informatics</i> , 2013 , 32, 261-6	3.8	16

84	Recovery of uranium (VI) from concentrated phosphoric acid by mixtures of new bis(1,3-dialkyloxypropan-2-yl) phosphoric acids and tri-n-octylphosphine oxide. <i>Hydrometallurgy</i> , 2013 , 140, 28-33	4	26
83	Publicly available models to predict normal boiling point of organic compounds. <i>Thermochemica Acta</i> , 2013 , 553, 60-67	2.9	4
82	Predicting ligand binding modes from neural networks trained on protein-ligand interaction fingerprints. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 763-72	6.1	39
81	Do not hesitate to use Tversky-and other hints for successful active analogue searches with feature count descriptors. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1543-62	6.1	18
80	QSPR ensemble modelling of alkaline-earth metal complexation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2013 , 76, 159-171		16
79	Models for identification of erroneous atom-to-atom mapping of reactions performed by automated algorithms. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 3116-22	6.1	17
78	Using self-organizing maps to accelerate similarity search. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 5396-409	3.4	13
77	Mining chemical reactions using neighborhood behavior and condensed graphs of reactions approaches. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2325-38	6.1	19
76	Complexation of Mn ²⁺ , Fe ²⁺ , Y ³⁺ , La ³⁺ , Pb ²⁺ , and UO ₂ ²⁺ with Organic Ligands: QSPR Ensemble Modeling of Stability Constants. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13482-13489	3.9	13
75	Interpretability of SAR/QSAR Models of any Complexity by Atomic Contributions. <i>Molecular Informatics</i> , 2012 , 31, 639-42	3.8	27
74	Electronic, spectroscopic, and ion-sensing properties of a dehydro[m]pyrido[14]- and [15]annulene isomer library. <i>Journal of Organic Chemistry</i> , 2012 , 77, 126-42	4.2	12
73	Generative Topographic Mapping (GTM): Universal Tool for Data Visualization, Structure-Activity Modeling and Dataset Comparison. <i>Molecular Informatics</i> , 2012 , 31, 301-12	3.8	88
72	QSPR Approach to Predict Nonadditive Properties of Mixtures. Application to Bubble Point Temperatures of Binary Mixtures of Liquids. <i>Molecular Informatics</i> , 2012 , 31, 491-502	3.8	50
71	Machine learning methods for property prediction in chemoinformatics: Quo Vadis?. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1413-37	6.1	146
70	Stability constants of complexes of Zn ²⁺ , Cd ²⁺ , and Hg ²⁺ with organic ligands: QSPR consensus modeling and design of new metal binders. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012 , 72, 309-321		14
69	New Approach for Accurate QSPR Modeling of Metal Complexation: Application to Stability Constants of Complexes of Lanthanide Ions Ln ³⁺ , Ag ⁺ , Zn ²⁺ , Cd ²⁺ and Hg ²⁺ with Organic Ligands in Water. <i>Macroheterocycles</i> , 2012 , 5, 404-410	2.2	16
68	In silico design of new ionic liquids based on quantitative structure-property relationship models of ionic liquid viscosity. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 93-8	3.4	43
67	Quantitative StructureProperty Relationship (QSPR) Modeling of Normal Boiling Point Temperature and Composition of Binary Azeotropes. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 14162-14167	3.9	25

66	RGD mimetics containing phthalimidine fragment as novel ligands of fibrinogen receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 5971-4	2.9	5
65	Local neighborhood behavior in a combinatorial library context. <i>Journal of Computer-Aided Molecular Design</i> , 2011 , 25, 237-52	4.2	9
64	Online chemical modeling environment (OCHEM): web platform for data storage, model development and publishing of chemical information. <i>Journal of Computer-Aided Molecular Design</i> , 2011 , 25, 533-54	4.2	311
63	Chemoinformatics as a Theoretical Chemistry Discipline. <i>Molecular Informatics</i> , 2011 , 30, 20-32	3.8	64
62	A REPRESENTATION TO APPLY USUAL DATA MINING TECHNIQUES TO CHEMICAL REACTIONS □ ILLUSTRATION ON THE RATE CONSTANT OF SN2 REACTIONS IN WATER. <i>International Journal on Artificial Intelligence Tools</i> , 2011 , 20, 253-270	0.9	27
61	Fragment descriptors in structure-property modeling and virtual screening. <i>Methods in Molecular Biology</i> , 2011 , 672, 213-43	1.4	6
60	Applicability domains for classification problems: Benchmarking of distance to models for Ames mutagenicity set. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 2094-111	6.1	169
59	The One-Class Classification Approach to Data Description and to Models Applicability Domain. <i>Molecular Informatics</i> , 2010 , 29, 581-7	3.8	44
58	ISIDA Property-Labelled Fragment Descriptors. <i>Molecular Informatics</i> , 2010 , 29, 855-68	3.8	92
57	A Representation to Apply Usual Data Mining Techniques to Chemical Reactions. <i>Lecture Notes in Computer Science</i> , 2010 , 318-326	0.9	2
56	Inductive transfer of knowledge: application of multi-task learning and feature net approaches to model tissue-air partition coefficients. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 133-44	6.1	55
55	Predicting the predictability: a unified approach to the applicability domain problem of QSAR models. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1762-76	6.1	132
54	Quantitative Structure-Property Relationships in Solvent Extraction and Complexation of Metals. <i>Ion Exchange and Solvent Extraction</i> , 2009 , 319-358		11
53	Combinatorial QSAR modeling of chemical toxicants tested against <i>Tetrahymena pyriformis</i> . <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 766-84	6.1	222
52	Computer-aided design of new metal binders. <i>Radiochimica Acta</i> , 2008 , 96, 505-511	1.9	12
51	Critical assessment of QSAR models of environmental toxicity against <i>Tetrahymena pyriformis</i> : focusing on applicability domain and overfitting by variable selection. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 1733-46	6.1	296
50	Building a chemical space based on fragment descriptors. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008 , 11, 661-8	1.3	13
49	ISIDA - Platform for Virtual Screening Based on Fragment and Pharmacophoric Descriptors. <i>Current Computer-Aided Drug Design</i> , 2008 , 4, 191-198	1.4	152

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