

A general treatment of solubility 4. Description and analysis of a PCA model for Ostwald solubility coefficients

Tulp, Indrek; Dobchev, Dimitar A.; Katritzky, Alan R.; Acree, William jr; Maran, Uko Journal of chemical information and modeling 2010 / 7, p. 1275-1283 : ill <https://pubs.acs.org/doi/10.1021/ci1000828>

Physical, chemical and technological property correlation with chemical structure : the potential of QSPR

Katritzky, Alan R.; Dobchev, Dimitar A.; **Karelson, Mati** Zeitschrift für Naturforschung B 2006 / 4, p. 373-384
<https://www.degruyter.com/document/doi/10.1515/znB-2006-0403/html?lang=en>

Prediction of peptide IMS cross sections from extended molecular connectivity

Oliferenko, Alexander; Tian, Feifei; **Karelson, Mati**; Katritzky, Alan R. International journal of mass spectrometry 2012 / p. 1-5
<https://www.sciencedirect.com/science/article/pii/S1387380611004295>

QSAR of heterocyclic compounds in large descriptor spaces

Karelson, Mati; Dobchev, Dimitar Atanasov Advances in Heterocyclic Chemistry ; Vol. 120 2016 / p. 237 - 273
<https://doi.org/10.1016/bs.aihch.2016.03.006> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article collection metrics at WOS](#)
[Article at WOS](#)

QSPR modeling of flash points : an update

Katritzky, Alan R.; Stoyanova-Slavova, Iva B.; **Dobchev, Dimitar**; **Karelson, Mati** Journal of molecular graphics and modelling 2007 / 2, p. 529-536 : ill <https://www.sciencedirect.com/science/article/pii/S1093326307000617>

QSPR modeling of hyperpolarizabilities

Katritzky, Alan R.; Pacureanu, Liliana; **Dobchev, Dimitar**; **Karelson, Mati** Journal of molecular modeling 2007 / 9, p. 951-963 : ill
https://www.researchgate.net/publication/6267202_QSPR_modeling_of_hyperpolarizabilities

QSPR modeling of UV absorption intensities

Katritzky, Alan R.; Slavov, Svetoslav; **Dobchev, Dimitar**; **Karelson, Mati** Journal of computer-aided molecular design 2007 / 7, p. 371-377 https://www.researchgate.net/publication/6272883_QSPR_modeling_of_UV_absorption_intensities

QSPR study of the first and second critical micelle concentrations of cationic surfactants

Katritzky, Alan R.; Pacureanu, Liliana M.; Slavov, Svetoslav H.; Dobchev, Dimitar A.; Shah, Dinesh O.; **Karelson, Mati** Computers & chemical engineering 2009 / 1, p. 321-332 : ill <https://www.sciencedirect.com/science/article/pii/S0098135408001956>

Quantitative structure-property relationship studies on Ostwald solubility and partition coefficients of organic solutes in ionic liquids

Katritzky, Alan R.; Kuanar, Minati; Stoyanova-Slavova, Iva B.; Slavov, Svetoslav H.; **Dobchev, Dimitar**; **Karelson, Mati**; Acree, William jr Journal of chemical and engineering data 2008 / 5, p. 1085-1092 <https://pubs.acs.org/doi/full/10.1021/jc700607b>

Rapid QSPR model development technique for prediction of vapor pressure of organic compounds

Katritzky, Alan R.; Slavov, Svetoslav; **Dobchev, Dimitar**; **Karelson, Mati** Computers & chemical engineering 2007 / 9, p. 1123-1130
<https://www.sciencedirect.com/science/article/pii/S0098135406002511>

The classification of solvents by combining classical QSPR methodology with principal component analysis

Katritzky, Alan R.; Fara, Dan C.; Kuanar, Minati; Hür, Evrim; **Karelson, Mati** The journal of physical chemistry. A 2005 / 45, p. 10323-10341