

# Bjorn C G Karlsson

## List of Publications by Year in descending order

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35  
papers

1,117  
citations

394421

19  
h-index

377865

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1075  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic NAC 71-82 Peptides Designed to Produce Fibrils with Different Protofilament Interface Contacts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9334.	4.1	2
2	A Capped Peptide of the Aggregation Prone NAC 71-82 Amino Acid Stretch of $\alpha$ -Synuclein Folds into Soluble $\beta$ -Sheet Oligomers at Low and Elevated Peptide Concentrations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1629.	4.1	6
3	Amyloid fibrils prepared using an acetylated and methyl amidated peptide model of the $\alpha$ -Synuclein NAC 71-82 amino acid stretch contain an additional cross- $\beta$ structure also found in prion proteins. <i>Scientific Reports</i> , 2019, 9, 15949.	3.3	4
4	Oxidative hotspots on actin promote skeletal muscle weakness in rheumatoid arthritis. <i>JCI Insight</i> , 2019, 4, .	5.0	23
5	CHAPTER 7. Theoretical and Computational Strategies in Molecularly Imprinted Polymer Development. <i>RSC Polymer Chemistry Series</i> , 2018, , 197-226.	0.2	2
6	Dilution of whisky – the molecular perspective. <i>Scientific Reports</i> , 2017, 7, 6489.	3.3	34
7	Key Residues and Phosphate Release Routes in the <i>Saccharomyces cerevisiae</i> Pho84 Transceptor. <i>Journal of Biological Chemistry</i> , 2016, 291, 26388-26398.	3.4	13
8	In silico screening of molecular imprinting prepolymerization systems: oseltamivir selective polymers through full-system molecular dynamics-based studies. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4210-4219.	2.8	22
9	Theoretical and Computational Strategies for the Study of the Molecular Imprinting Process and Polymer Performance. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 150, 25-50.	1.1	18
10	Hydrogen bond diversity in the pre-polymerization stage contributes to morphology and MIP-template recognition – MAA versus MMA. <i>European Polymer Journal</i> , 2015, 66, 558-568.	5.4	19
11	Simulation of imprinted emulsion prepolymerization mixtures. <i>Polymer Journal</i> , 2015, 47, 827-830.	2.7	11
12	Towards Global QSAR Model Building for Acute Toxicity: Munro Database Case Study. <i>International Journal of Molecular Sciences</i> , 2014, 15, 18162-18174.	4.1	36
13	On the Influence of Crosslinker on Template Complexation in Molecularly Imprinted Polymers: A Computational Study of Prepolymerization Mixture Events with Correlations to Template-Polymer Recognition Behavior and NMR Spectroscopic Studies. <i>International Journal of Molecular Sciences</i> , 2014, 15, 10622-10634.	4.1	40
14	A Functional Monomer Is Not Enough: Principal Component Analysis of the Influence of Template Complexation in Pre-Polymerization Mixtures on Imprinted Polymer Recognition and Morphology. <i>International Journal of Molecular Sciences</i> , 2014, 15, 20572-20584.	4.1	24
15	Molecular dynamics approaches to the design and synthesis of PCB targeting molecularly imprinted polymers: interference to monomer-template interactions in imprinting of 1,2,3-trichlorobenzene. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 844-853.	2.8	24
16	Theoretical Studies of 17- $\beta$ -Estradiol-Imprinted Prepolymerization Mixtures: Insights Concerning the Roles of Cross-Linking and Functional Monomers in Template Complexation and Polymerization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 13965-13970.	3.7	26
17	How Warfarin's Structural Diversity Influences Its Phospholipid Bilayer Membrane Permeation. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2384-2395.	2.6	17
18	Computational Strategies for the Design and Study of Molecularly Imprinted Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 13900-13909.	3.7	43

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19	Influence of Composition and Morphology on Template Recognition in Molecularly Imprinted Polymers. <i>Macromolecules</i> , 2013, 46, 1408-1414.	4.8	49
20	Consequences of Morphology on Molecularly Imprinted Polymer-Ligand Recognition. <i>International Journal of Molecular Sciences</i> , 2013, 14, 1207-1217.	4.1	27
21	Monitoring the Distribution of Warfarin in Blood Plasma. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 650-652.	2.8	14
22	Mechanisms underlying molecularly imprinted polymer molecular memory and the role of crosslinker: resolving debate on the nature of template recognition in phenylalanine anilide imprinted polymers. <i>Journal of Molecular Recognition</i> , 2012, 25, 69-73.	2.1	38
23	In situ detection of warfarin using time-correlated single-photon counting. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 60-62.	2.1	10
24	Spectroscopic evidence for the presence of the cyclic hemiketal form of warfarin in aqueous solution: Consequences for bioavailability. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 318-320.	2.1	12
25	Towards a synthetic avidin mimic. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1397-1404.	3.7	11
26	Rational design of biomimetic molecularly imprinted materials: theoretical and computational strategies for guiding nanoscale structured polymer development. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1771-1786.	3.7	77
27	The mechanistic basis for warfarin's structural diversity and implications for its bioavailability. <i>Computational and Theoretical Chemistry</i> , 2010, 958, 7-9.	1.5	15
28	Warfarin: an environment-dependent switchable molecular probe. <i>Journal of Molecular Recognition</i> , 2010, 23, 604-608.	2.1	22
29	Synthetic Human Serum Albumin Sudlow I Binding Site Mimics. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 7932-7937.	6.4	25
30	Theoretical and computational strategies for rational molecularly imprinted polymer design. <i>Biosensors and Bioelectronics</i> , 2009, 25, 543-552.	10.1	156
31	Molecular Insights on the Two Fluorescence Lifetimes Displayed by Warfarin from Fluorescence Anisotropy and Molecular Dynamics Studies. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7945-7949.	2.6	16
32	Structure and Dynamics of Monomer-Template Complexation: An Explanation for Molecularly Imprinted Polymer Recognition Site Heterogeneity. <i>Journal of the American Chemical Society</i> , 2009, 131, 13297-13304.	13.7	112
33	Correlated theoretical, spectroscopic and X-ray crystallographic studies of a non-covalent molecularly imprinted polymerisation system. <i>Analyst, The</i> , 2007, 132, 1161.	3.5	63
34	The Spectrophysics of Warfarin: Implications for Protein Binding. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10520-10528.	2.6	51
35	The roles of template complexation and ligand binding conditions on recognition in bupivacaine molecularly imprinted polymers. <i>Analyst, The</i> , 2004, 129, 456.	3.5	55