Peter V Coveney

List of Publications by Year in descending order

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87888 123424 4,754 128 38 61 citations g-index h-index papers 133 133 133 5459 docs citations times ranked citing authors all docs

| # | Article | IF | Citations |
|----|---|--------------|-----------|
| 1 | A critical appraisal of polymer–clay nanocomposites. Chemical Society Reviews, 2008, 37, 568-594. | 38.1 | 369 |
| 2 | Big data need big theory too. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160153. | 3.4 | 139 |
| 3 | Non-canonical Wnt signalling modulates the endothelial shear stress flow sensor in vascular remodelling. ELife, 2016, 5, e07727. | 6.0 | 125 |
| 4 | On the application of computer simulation techniques to anionic and cationic clays: A materials chemistry perspective. Journal of Materials Chemistry, 2006, 16, 708-723. | 6.7 | 124 |
| 5 | Computing Clinically Relevant Binding Free Energies of HIV-1 Protease Inhibitors. Journal of Chemical Theory and Computation, 2014, 10, 1228-1241. | 5. 3 | 123 |
| 6 | Rapid, Precise, and Reproducible Prediction of Peptide–MHC Binding Affinities from Molecular Dynamics That Correlate Well with Experiment. Journal of Chemical Theory and Computation, 2015, 11, 3346-3356. | 5 . 3 | 122 |
| 7 | Deformability-based red blood cell separation in deterministic lateral displacement devicesâ€"A simulation study. Biomicrofluidics, 2014, 8, 054114. | 2.4 | 116 |
| 8 | Graphene–Graphene Interactions: Friction, Superlubricity, and Exfoliation. Advanced Materials, 2018, 30, e1705791. | 21.0 | 105 |
| 9 | Modelling biological complexity: a physical scientist's perspective. Journal of the Royal Society Interface, 2005, 2, 267-280. | 3.4 | 104 |
| 10 | Rapid, Accurate, Precise, and Reliable Relative Free Energy Prediction Using Ensemble Based Thermodynamic Integration. Journal of Chemical Theory and Computation, 2017, 13, 210-222. | 5 . 3 | 101 |
| 11 | Chemically Specific Multiscale Modeling of Clay–Polymer Nanocomposites Reveals Intercalation Dynamics, Tactoid Selfâ€Assembly and Emergent Materials Properties. Advanced Materials, 2015, 27, 966-984. | 21.0 | 98 |
| 12 | Principles Governing Control of Aggregation and Dispersion of Graphene and Graphene Oxide in Polymer Melts. Advanced Materials, 2020, 32, e2003213. | 21.0 | 97 |
| 13 | The <scp>B</scp> ravyi– <scp>K</scp> itaev transformation: Properties and applications. International Journal of Quantum Chemistry, 2015, 115, 1431-1441. | 2.0 | 93 |
| 14 | Computer simulations reveal complex distribution of haemodynamic forces in a mouse retina model of angiogenesis. Journal of the Royal Society Interface, 2014, 11, 20140543. | 3.4 | 87 |
| 15 | Micromechanical exfoliation of graphene on the atomistic scale. Physical Chemistry Chemical Physics, 2019, 21, 5716-5722. | 2.8 | 84 |
| 16 | Accurate Ensemble Molecular Dynamics Binding Free Energy Ranking of Multidrug-Resistant HIV-1 Proteases. Journal of Chemical Information and Modeling, 2010, 50, 890-905. | 5 . 4 | 82 |
| 17 | On the calculation of equilibrium thermodynamic properties from molecular dynamics. Physical Chemistry Chemical Physics, 2016, 18, 30236-30240. | 2.8 | 80 |
| 18 | Rapid, accurate, precise and reproducible ligand–protein binding free energy prediction. Interface Focus, 2020, 10, 20200007. | 3.0 | 77 |

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| 19 | A Comparison of the Bravyi–Kitaev and Jordan–Wigner Transformations for the Quantum Simulation of Quantum Chemistry. Journal of Chemical Theory and Computation, 2018, 14, 5617-5630. | 5.3 | 75 |
| 20 | Recent advances in large-scale atomistic and coarse-grained molecular dynamics simulation of clay minerals. Journal of Materials Chemistry, 2009, 19, 2482. | 6.7 | 74 |
| 21 | Big data: the end of the scientific method?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180145. | 3.4 | 68 |
| 22 | Theory, modelling and simulation in origins of life studies. Chemical Society Reviews, 2012, 41, 5430. | 38.1 | 65 |
| 23 | Multiscale modelling and simulation: a position paper. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130377. | 3.4 | 64 |
| 24 | The Effect of Mutations on Drug Sensitivity and Kinase Activity of Fibroblast Growth Factor Receptors: A Combined Experimental and Theoretical Study. EBioMedicine, 2015, 2, 194-204. | 6.1 | 60 |
| 25 | Rapid and Reliable Binding Affinity Prediction of Bromodomain Inhibitors: A Computational Study. Journal of Chemical Theory and Computation, 2017, 13, 784-795. | 5.3 | 59 |
| 26 | Computer simulation study of the materials properties of intercalated and exfoliated poly(ethylene)glycol clay nanocomposites. Soft Matter, 2009, 5, 2239. | 2.7 | 57 |
| 27 | Survey of Multiscale and Multiphysics Applications and Communities. Computing in Science and Engineering, 2014, 16, 34-43. | 1.2 | 56 |
| 28 | Combined experimental and theoretical investigations of clay–polymer nanocomposites: intercalation of single bifunctional organic compounds in Na+-montmorillonite and Na+-hectorite clays for the design of new materials. Journal of Materials Chemistry, 2003, 13, 2540-2550. | 6.7 | 55 |
| 29 | Multiscale computing in the exascale era. Journal of Computational Science, 2017, 22, 15-25. | 2.9 | 54 |
| 30 | Uncertainty Quantification in Alchemical Free Energy Methods. Journal of Chemical Theory and Computation, 2018, 14, 2867-2880. | 5.3 | 54 |
| 31 | Automated Molecular Simulation Based Binding Affinity Calculator for Ligand-Bound HIV-1 Proteases. Journal of Chemical Information and Modeling, 2008, 48, 1909-1919. | 5.4 | 52 |
| 32 | Choice of boundary condition for lattice-Boltzmann simulation of moderate-Reynolds-number flow in complex domains. Physical Review E, 2014, 89, 023303. | 2.1 | 48 |
| 33 | Modeling Nanostructure in Graphene Oxide: Inhomogeneity and the Percolation Threshold. Journal of Chemical Information and Modeling, 2019, 59, 2741-2745. | 5.4 | 48 |
| 34 | Detachment energies of spheroidal particles from fluid-fluid interfaces. Journal of Chemical Physics, 2014, 141, 154902. | 3.0 | 46 |
| 35 | Intercalation and in situ polymerization of poly(alkylene oxide) derivatives within M+-montmorillonite (M = Li, Na, K). Journal of Materials Chemistry, 2006, 16, 1082. | 6.7 | 45 |
| 36 | Mechanism of Exfoliation and Prediction of Materials Properties of Clay–Polymer Nanocomposites from Multiscale Modeling. Nano Letters, 2015, 15, 8108-8113. | 9.1 | 45 |

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| 37 | The impact of uncertainty on predictions of the CovidSim epidemiological code. Nature Computational Science, 2021, 1, 128-135. | 8.0 | 45 |
| 38 | Uncertainty quantification in classical molecular dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200082. | 3.4 | 44 |
| 39 | Impact of blood rheology on wall shear stress in a model of the middle cerebral artery. Interface Focus, 2013, 3, 20120094. | 3.0 | 41 |
| 40 | Self–organization and complexity: a new age for theory, computation and experiment. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 1057-1079. | 3.4 | 39 |
| 41 | Ensemble-Based Steered Molecular Dynamics Predicts Relative Residence Time of A _{2A} Receptor Binders. Journal of Chemical Theory and Computation, 2019, 15, 3316-3330. | 5.3 | 39 |
| 42 | Patient-specific simulation as a basis for clinical decision-making. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3199-3219. | 3.4 | 37 |
| 43 | Computing the Role of Near Attack Conformations in an Enzyme-Catalyzed Nucleophilic Bimolecular Reaction. Journal of Chemical Theory and Computation, 2015, 11, 316-324. | 5.3 | 35 |
| 44 | Bridging the gaps at the physics–chemistry–biology interface. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160335. | 3.4 | 35 |
| 45 | A Mechanistic Model for Predicting Cell Surface Presentation of Competing Peptides by MHC Class I Molecules. Frontiers in Immunology, 2018, 9, 1538. | 4.8 | 35 |
| 46 | EasyVVUQ: A Library for Verification, Validation and Uncertainty Quantification in High Performance Computing. Journal of Open Research Software, 2020, 8, 11. | 5.9 | 34 |
| 47 | Determination of Free Energy Profiles for the Translocation of Polynucleotides through α-Hemolysin Nanopores using Non-Equilibrium Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2009, 5, 2135-2148. | 5.3 | 33 |
| 48 | Rapid and accurate ranking of binding affinities of epidermal growth factor receptor sequences with selected lung cancer drugs. Journal of the Royal Society Interface, 2011, 8, 1114-1127. | 3.4 | 33 |
| 49 | Ordering of Trotterization: Impact on Errors in Quantum Simulation of Electronic Structure. Entropy, 2019, 21, 1218. | 2.2 | 33 |
| 50 | Peptide recognition by the T cell receptor: comparison of binding free energies from thermodynamic integration, Poisson–Boltzmann and linear interaction energy approximations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 2037-2053. | 3.4 | 32 |
| 51 | FabSim: Facilitating computational research through automation on large-scale and distributed e-infrastructures. Computer Physics Communications, 2016, 207, 375-385. | 7.5 | 32 |
| 52 | Molecular Basis of Peptide Recognition by the TCR: Affinity Differences Calculated Using Large Scale Computing. Journal of Immunology, 2005, 175, 1715-1723. | 0.8 | 31 |
| 53 | Multiscale modelling: approaches and challenges. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130390. | 3.4 | 31 |
| 54 | Evaluation and Characterization of Trk Kinase Inhibitors for the Treatment of Pain: Reliable Binding Affinity Predictions from Theory and Computation. Journal of Chemical Information and Modeling, 2017, 57, 897-909. | 5.4 | 30 |

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| 55 | Accuracy and Precision of Alchemical Relative Free Energy Predictions with and without Replicaâ€Exchange. Advanced Theory and Simulations, 2020, 3, 1900195. | 2.8 | 30 |
| 56 | PolNet: A Tool to Quantify Network-Level Cell Polarity and Blood Flow in Vascular Remodeling. Biophysical Journal, 2018, 114, 2052-2058. | 0.5 | 29 |
| 57 | The influence of base pair tautomerism on single point mutations in aqueous DNA. Interface Focus, 2020, 10, 20190120. | 3.0 | 29 |
| 58 | Ensemble-Based Replica Exchange Alchemical Free Energy Methods: The Effect of Protein Mutations on Inhibitor Binding. Journal of Chemical Theory and Computation, 2019, 15, 1265-1277. | 5.3 | 28 |
| 59 | Scientific Grid computing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 1707-1713. | 3.4 | 27 |
| 60 | An Ensemble-Based Protocol for the Computational Prediction of Helix–Helix Interactions in G Protein-Coupled Receptors using Coarse-Grained Molecular Dynamics. Journal of Chemical Theory and Computation, 2017, 13, 2254-2270. | 5.3 | 27 |
| 61 | T-cell epitope prediction and immune complex simulation using molecular dynamics: state of the art and persisting challenges. Immunome Research, 2010, 6, S4. | 0.1 | 25 |
| 62 | Grid-based steered thermodynamic integration accelerates the calculation of binding free energies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 1999-2015. | 3.4 | 23 |
| 63 | Comparative analysis of nucleotide translocation through protein nanopores using steered molecular dynamics and an adaptive biasing force. Journal of Computational Chemistry, 2014, 35, 692-702. | 3.3 | 23 |
| 64 | Pandemic drugs at pandemic speed: infrastructure for accelerating COVID-19 drug discovery with hybrid machine learning- and physics-based simulations on high-performance computers. Interface Focus, 2021, 11, 20210018. | 3.0 | 23 |
| 65 | NEKTAR, SPICE and Vortonics: using federated grids for large scale scientific applications. Cluster Computing, 2007, 10, 351-364. | 5.0 | 22 |
| 66 | Validation of Patient-Specific Cerebral Blood Flow Simulation Using Transcranial Doppler Measurements. Frontiers in Physiology, 2018, 9, 721. | 2.8 | 22 |
| 67 | A New Pathology in the Simulation of Chaotic Dynamical Systems on Digital Computers. Advanced Theory and Simulations, 2019, 2, 1900125. | 2.8 | 22 |
| 68 | Determining materials properties of natural composites using molecular simulation. Journal of Materials Chemistry, 2009, 19, 7251. | 6.7 | 21 |
| 69 | Building Confidence in Simulation: Applications of EasyVVUQ. Advanced Theory and Simulations, 2020, 3, 1900246. | 2.8 | 21 |
| 70 | Disentangling Steric and Electrostatic Factors in Nanoscale Transport Through Confined Space. Nano Letters, 2013, 13, 3890-3896. | 9.1 | 19 |
| 71 | Multiscale computing for science and engineering in the era of exascale performance. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180144. | 3.4 | 18 |
| 72 | Application of ESMACS binding free energy protocols to diverse datasets: Bromodomain-containing protein 4. Scientific Reports, 2019, 9, 6017. | 3.3 | 18 |

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| 73 | Ensembles Are Required to Handle Aleatoric and Parametric Uncertainty in Molecular Dynamics Simulation. Journal of Chemical Theory and Computation, 2021, 17, 5187-5197. | 5.3 | 18 |
| 74 | The Role of Multiscale Protein Dynamics in Antigen Presentation and T Lymphocyte Recognition. Frontiers in Immunology, 2017, 8, 797. | 4.8 | 17 |
| 75 | Principles governing control of aggregation and dispersion of aqueous graphene oxide. Scientific Reports, 2021, 11, 22460. | 3.3 | 17 |
| 76 | Rapid, Accurate, and Precise Calculation of Relative Binding Affinities for the SH2 Domain Using a Computational Grid. Journal of Chemical Theory and Computation, 2007, 3, 1193-1202. | 5.3 | 16 |
| 77 | The arrow of time. Nature, 1991, 350, 456-456. | 27.8 | 15 |
| 78 | Materials properties of clay nanocomposites: onset of negative Poisson ratio in large-scale molecular dynamics simulation. Soft Matter, 2009, 5, 3896. | 2.7 | 15 |
| 79 | Mutation V111I in HIV-2 Reverse Transcriptase Increases the Fitness of the Nucleoside Analogue-Resistant K65R and Q151M Viruses. Journal of Virology, 2015, 89, 833-843. | 3.4 | 15 |
| 80 | An automated multiscale ensemble simulation approach for vascular blood flow. Journal of Computational Science, 2015, 9, 150-155. | 2.9 | 14 |
| 81 | Host genotype and time dependent antigen presentation of viral peptides: predictions from theory. Scientific Reports, 2017, 7, 14367. | 3.3 | 14 |
| 82 | High-throughput binding affinity calculations at extreme scales. BMC Bioinformatics, 2018, 19, 482. | 2.6 | 14 |
| 83 | Introducing VECMAtk - Verification, Validation and Uncertainty Quantification for Multiscale and HPC Simulations. Lecture Notes in Computer Science, 2019, , 479-492. | 1.3 | 14 |
| 84 | Principles of Small-Molecule Transport through Synthetic Nanopores. ACS Nano, 2021, 15, 16194-16206. | 14.6 | 14 |
| 85 | TIES 20: Relative Binding Free Energy with a Flexible Superimposition Algorithm and Partial Ring Morphing. Journal of Chemical Theory and Computation, 2021, 17, 1250-1265. | 5.3 | 14 |
| 86 | Large Scale Study of Ligand–Protein Relative Binding Free Energy Calculations: Actionable Predictions from Statistically Robust Protocols. Journal of Chemical Theory and Computation, 2022, 18, 2687-2702. | 5.3 | 14 |
| 87 | Mechanism of Drug Efficacy Within the EGF Receptor Revealed by Microsecond Molecular Dynamics Simulation. Molecular Cancer Therapeutics, 2012, 11, 2394-2400. | 4.1 | 13 |
| 88 | IMENSE: An e-infrastructure environment for patient specific multiscale data integration, modelling and clinical treatment. Journal of Computational Science, 2012, 3, 314-327. | 2.9 | 13 |
| 89 | The Role of Graphene in Enhancing the Material Properties of Thermosetting Polymers. Advanced Theory and Simulations, 2019, 2, 1800168. | 2.8 | 13 |
| 90 | IMPECCABLE: Integrated Modeling PipelinE for COVID Cure by Assessing Better LEads. , 2021, , . | | 13 |

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| 91 | Multiscale modelling, simulation and computing: from the desktop to the exascale. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180355. | 3.4 | 12 |
| 92 | The heterogeneous multiscale method applied to inelastic polymer mechanics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180150. | 3.4 | 12 |
| 93 | Toward High Fidelity Materials Property Prediction from Multiscale Modeling and Simulation. Advanced Theory and Simulations, 2020, 3, 1900122. | 2.8 | 12 |
| 94 | When we can trust computers (and when we can't). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200067. | 3.4 | 12 |
| 95 | Scalable HPC & amp; Al infrastructure for COVID-19 therapeutics., 2021,,. | | 12 |
| 96 | Alchemical Free Energy Estimators and Molecular Dynamics Engines: Accuracy, Precision, and Reproducibility. Journal of Chemical Theory and Computation, 2022, 18, 3972-3987. | 5.3 | 12 |
| 97 | From base pair to bedside: molecular simulation and the translation of genomics to personalized medicine. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 585-598. | 6.6 | 11 |
| 98 | Hit-to-lead and lead optimization binding free energy calculations for G protein-coupled receptors. Interface Focus, 2020, 10, 20190128. | 3.0 | 11 |
| 99 | The effect of protein mutations on drug binding suggests ensuing personalised drug selection. Scientific Reports, 2021, 11, 13452. | 3.3 | 11 |
| 100 | Resolution of Discordant HIV-1 Protease Resistance Rankings Using Molecular Dynamics Simulations. Journal of Chemical Information and Modeling, 2011, 51, 2636-2649. | 5.4 | 10 |
| 101 | Integrative approaches to computational biomedicine. Interface Focus, 2013, 3, 20130003. | 3.0 | 10 |
| 102 | The influence of external electric fields on proton transfer tautomerism in the guanine–cytosine base pair. Physical Chemistry Chemical Physics, 2021, 23, 6252-6265. | 2.8 | 10 |
| 103 | Implementation of measurement reduction for the variational quantum eigensolver. Physical Review Research, 2021, 3, . | 3.6 | 10 |
| 104 | Towards blood flow in the virtual human: efficient self-coupling of HemeLB. Interface Focus, 2021, 11, 20190119. | 3.0 | 10 |
| 105 | Morphology and elastic modulus of novel poly[oligo(ethylene glycol) diacrylate]-montmorillonite nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1785-1793. | 2.1 | 9 |
| 106 | Application of the ESMACS Binding Free Energy Protocol to a Multiâ€Binding Site Lactate Dehydogenase A Ligand Dataset. Advanced Theory and Simulations, 2020, 3, 1900194. | 2.8 | 9 |
| 107 | Reliability and reproducibility in computational science: implementing validation, verification and uncertainty quantification <i>in silico</i> . Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200409. | 3.4 | 9 |
| 108 | Chemically Specific Multiscale Modeling of the Shear-Induced Exfoliation of Clay–Polymer Nanocomposites. ACS Omega, 2018, 3, 6439-6445. | 3.5 | 8 |

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| 109 | WEDS: a Web services-based environment for distributed simulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 1807-1816. | 3.4 | 7 |
| 110 | Coarse-graining and renormalization group methods for the elucidation of the kinetics of complex nucleation and growth processes. Molecular Physics, 2006, 104, 177-185. | 1.7 | 7 |
| 111 | Concurrent and Adaptive Extreme Scale Binding Free Energy Calculations. , 2018, , . | | 7 |
| 112 | Global Conformational Dynamics of HIV-1 Reverse Transcriptase Bound to Non-Nucleoside Inhibitors. Biology, 2012, 1, 222-244. | 2.8 | 6 |
| 113 | Ensemble Simulations and Experimental Free Energy Distributions: Evaluation and Characterization of Isoxazole Amides as SMYD3 Inhibitors. Journal of Chemical Information and Modeling, 2022, 62, 2561-2570. | 5.4 | 6 |
| 114 | Chiral polymerization and the RNA world. International Journal of Astrobiology, 2005, 4, 63-73. | 1.6 | 5 |
| 115 | Enabling Trade-offs Between Accuracy and Computational Cost: Adaptive Algorithms to Reduce Time to Clinical Insight. , 2018, , . | | 5 |
| 116 | From digital hype to analogue reality: Universal simulation beyond the quantum and exascale eras. Journal of Computational Science, 2020, 46, 101093. | 2.9 | 5 |
| 117 | Thermodynamic and structural insights into the repurposing of drugs that bind to SARS-CoV-2 main protease. Molecular Systems Design and Engineering, 2022, 7, 123-131. | 3.4 | 5 |
| 118 | Tutorial applications for Verification, Validation and Uncertainty Quantification using VECMA toolkit. Journal of Computational Science, 2021, 53, 101402. | 2.9 | 4 |
| 119 | Quantized Water Access to the HIV-1 Protease Active Site as a Proposed Mechanism for Cooperative Mutations in Drug Affinity. Biochemistry, 2012, 51, 6487-6489. | 2.5 | 3 |
| 120 | Large-scale binding affinity calculations on commodity compute clouds. Interface Focus, 2020, 10, 20190133. | 3.0 | 3 |
| 121 | Computational biomedicine. Part 1: molecular medicine. Interface Focus, 2020, 10, 20200047. | 3.0 | 3 |
| 122 | Computational biomedicine. Part II: organs and systems. Interface Focus, 2021, 11, 20200082. | 3.0 | 3 |
| 123 | Hybrid parallelization of molecular dynamics simulations to reduce load imbalance. Journal of Supercomputing, 2022, 78, 9184-9215. | 3.6 | 3 |
| 124 | Navigating legal constraints in clinical data warehousing: a case study in personalized medicine. Interface Focus, 2013, 3, 20120088. | 3.0 | 2 |
| 125 | The performance of ensemble-based free energy protocols in computing binding affinities to ROS1 kinase. Scientific Reports, 2022, 12, . | 3.3 | 2 |
| 126 | Virtual Physiological Human research initiative: the future for rational HIV treatment design?. Future HIV Therapy, 2008, 2, 419-425. | 0.4 | 1 |

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| 1 | L 27 | Accelerating Heterogeneous Multiscale Simulations of Advanced Materials Properties with Graphâ€Based Clustering. Advanced Theory and Simulations, 2021, 4, 2000234. | 2.8 | 1 |
| 1 | L28 | Pharmaceutical Industryâ€"Academia Cooperation. , 2021, , 307-322. | | 0 |