

# Baris Demir

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,310  
citations

331670

21  
h-index

361022

35  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1196  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selectively tuning ionic thermopower in all-solid-state flexible polymer composites for thermal sensing. <i>Nature Communications</i> , 2022, 13, 221.	12.8	56
2	A Computational Procedure for Atomistic Modelling of Polyphosphazenes towards Better Capturing Molecular-Level Structuring and Thermo-Mechanical Properties. <i>Polymers</i> , 2022, 14, 1451.	4.5	2
3	New Framework for Computing a General Local Self-Diffusion Coefficient Using Statistical Mechanics. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3357-3363.	5.3	5
4	Tailoring mechanical and electrical properties of graphene oxide film for structural dielectric capacitors. <i>Journal of Power Sources</i> , 2021, 482, 229020.	7.8	14
5	A Bespoke Computational Procedure to Incorporate CO <sub>2</sub> as a Renewable Feedstock into Polycarbonates. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2722-2731.	4.4	4
6	Molecular-Level Investigation of Cycloaliphatic Epoxidised Ionic Liquids as a New Generation of Monomers for Versatile Poly(Ionic Liquids). <i>Polymers</i> , 2021, 13, 1512.	4.5	10
7	An automated in-situ polymerisation procedure for multi-functional cyanate ester resins via ring formation. <i>Polymer</i> , 2021, 228, 123938.	3.8	4
8	Modelling Amorphous Nanoporous Polymers Doped with an Ionic Liquid via an Adaptable Computational Procedure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 11893-11904.	3.7	1
9	Thermal conductivities and mechanical properties of epoxy resin as a function of the degree of cross-linking. <i>International Journal of Heat and Mass Transfer</i> , 2021, 180, 121821.	4.8	22
10	High-Performance Supercapacitor Materials Based on Hierarchically Porous Carbons Derived from <i>Artocarpus heterophyllus</i> Seed. <i>ACS Applied Energy Materials</i> , 2021, 4, 12257-12266.	5.1	21
11	Dendronized polydiacetylenes via photo-polymerization of supramolecular assemblies showing thermally tunable chirality. <i>Chemical Communications</i> , 2021, 57, 12780-12783.	4.1	6
12	Thermoresponsive Supramolecular Assemblies from Dendronized Amphiphiles To Form Fluorescent Spheres with Tunable Chirality. <i>ACS Nano</i> , 2021, 15, 20067-20078.	14.6	16
13	Accelerating solar desalination in brine through ion activated hierarchically porous polyion complex hydrogels. <i>Materials Horizons</i> , 2020, 7, 3187-3195.	12.2	99
14	Graphene oxide thin film structural dielectric capacitors for aviation static electricity harvesting and storage. <i>Composites Part B: Engineering</i> , 2020, 201, 108375.	12.0	22
15	New Epoxy Thermosets Derived from a Bisimidazolium Ionic Liquid Monomer: An Experimental and Modeling Investigation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12208-12221.	6.7	25
16	Investigation of the Ionic Liquid Graphene Electric Double Layer in Supercapacitors Using Constant Potential Simulations. <i>Nanomaterials</i> , 2020, 10, 2181.	4.1	24
17	Structural Electrolytes Based on Epoxy Resins and Ionic Liquids: A Molecular-Level Investigation. <i>Macromolecules</i> , 2020, 53, 7635-7649.	4.8	19
18	In silico study of bio-based epoxy precursors for sustainable and renewable thermosets. <i>Polymer</i> , 2020, 191, 122253.	3.8	20

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19	Mass difference and polarization lead to low thermal conductivity of graphene-like carbon nitride (C <sub>3</sub> N). <i>Carbon</i> , 2020, 162, 202-208.	10.3	35
20	Low Fouling Fluoropolymers for Bioconjugation and In Vivo Tracking. <i>Angewandte Chemie</i> , 2020, 132, 4759-4765.	2.0	22
21	Low Fouling Fluoropolymers for Bioconjugation and In Vivo Tracking. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4729-4735.	13.8	40
22	Using molecular entanglement as a strategy to enhance carbon fiber-epoxy composite interfaces. <i>Composites Science and Technology</i> , 2020, 196, 108225.	7.8	39
23	Boosting the electrical and mechanical properties of structural dielectric capacitor composites via gold nanoparticle doping. <i>Composites Part B: Engineering</i> , 2019, 178, 107480.	12.0	31
24	A Versatile Computational Procedure for Chain-Growth Polymerization Using Molecular Dynamics Simulations. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3027-3038.	4.4	13
25	Designing carbon fiber composite interfaces using a "graft-to" approach: Surface grafting density versus interphase penetration. <i>Carbon</i> , 2019, 146, 88-96.	10.3	56
26	Simultaneously increasing the hydrophobicity and interfacial adhesion of carbon fibres: a simple pathway to install passive functionality into composites. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13483-13494.	10.3	43
27	Epoxy-gold nanoparticle nanocomposites with enhanced thermo-mechanical properties: An integrated modelling and experimental study. <i>Composites Science and Technology</i> , 2019, 174, 106-116.	7.8	22
28	Predictions of Thermo-Mechanical Properties of Cross-Linked Polyacrylamide Hydrogels Using Molecular Simulations. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800153.	2.8	52
29	A predictive model of interfacial interactions between functionalised carbon fibre surfaces cross-linked with epoxy resin. <i>Composites Science and Technology</i> , 2018, 159, 127-134.	7.8	43
30	Synergistic interfacial effects of ionic liquids as sizing agents and surface modified carbon fibers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4504-4514.	10.3	48
31	Atomistic Modeling of the Formation of a Thermoset/Thermoplastic Interphase during Co-Curing. <i>Macromolecules</i> , 2018, 51, 3983-3993.	4.8	35
32	An efficient high-throughput grafting procedure for enhancing carbon fiber-to-matrix interactions in composites. <i>Chemical Engineering Journal</i> , 2018, 353, 373-380.	12.7	50
33	Design Rules for Enhanced Interfacial Shear Response in Functionalized Carbon Fiber Epoxy Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11846-11857.	8.0	112
34	Electrochemical surface modification of carbon fibres by grafting of amine, carboxylic and lipophilic amide groups. <i>Carbon</i> , 2017, 118, 393-403.	10.3	97
35	Correction: Determination of Kamlet-Taft parameters for selected solvate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19975-19975.	2.8	1
36	Determination of Kamlet-Taft parameters for selected solvate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13153-13157.	2.8	34

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37	Adsorption of perfluorohexane in BAM-P109 type activated carbon via molecular simulation. <i>Adsorption Science and Technology</i> , 2016, 34, 79-92.	3.2	7
38	A robust and reproducible procedure for cross-linking thermoset polymers using molecular simulation. <i>Soft Matter</i> , 2016, 12, 2453-2464.	2.7	93
39	Prediction of perfluorohexane adsorption in BCR-704 zeolite via molecular simulation. <i>Fluid Phase Equilibria</i> , 2014, 366, 152-158.	2.5	6
40	Propane/propylene separation in ion-exchanged zeolite-like metal organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2014, 198, 185-193.	4.4	14
41	CO <sub>2</sub> /CH <sub>4</sub> Separation in Ion-Exchanged Zeolite-like Metal Organic Frameworks with Sodalite Topology ( <i>sod</i> -ZMOFs). <i>Journal of Physical Chemistry C</i> , 2013, 117, 15647-15658.	3.1	19
42	Silver <sup>+</sup> Sodium Ion Exchange Dynamics in LTA Zeolite Membranes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1663-1671.	3.1	24
43	Atomistic Modeling of Dual-Cured Thermosets Based on Glycidyl Methacrylate and Hardeners with Various Architecture and Functionality. <i>ACS Applied Polymer Materials</i> , 0, , .	4.4	3