

Baris Demir

List of Publications by Year in descending order

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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	Design Rules for Enhanced Interfacial Shear Response in Functionalized Carbon Fiber Epoxy Composites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11846-11857.	8.0	112
2	Accelerating solar desalination in brine through ion activated hierarchically porous polyion complex hydrogels. <i>Materials Horizons</i> , 2020, 7, 3187-3195.	12.2	99
3	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
4	A robust and reproducible procedure for cross-linking thermoset polymers using molecular simulation. <i>Soft Matter</i> , 2016, 12, 2453-2464.	2.7	93
5	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
6	Selectively tuning ionic thermopower in all-solid-state flexible polymer composites for thermal sensing. <i>Nature Communications</i> , 2022, 13, 221.	12.8	56
7	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
8	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
9	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
10	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
11	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
12	Low-Fouling Fluoropolymers for Bioconjugation and In-Vivo Tracking. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4729-4735.	13.8	40
13	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
14	Atomistic Modeling of the Formation of a Thermoset/Thermoplastic Interphase during Co-Curing. <i>Macromolecules</i> , 2018, 51, 3983-3993.	4.8	35
15	Mass difference and polarization lead to low thermal conductivity of graphene-like carbon nitride (C ₃ N). <i>Carbon</i> , 2020, 162, 202-208.	10.3	35
16	Determination of Kamlet-Taft parameters for selected solvate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13153-13157.	2.8	34
17	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
18	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

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19	Silver‐Sodium Ion Exchange Dynamics in LTA Zeolite Membranes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1663-1671.	3.1	24
20	Investigation of the Ionic Liquid Graphene Electric Double Layer in Supercapacitors Using Constant Potential Simulations. <i>Nanomaterials</i> , 2020, 10, 2181.	4.1	24
21	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
22	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
23	Low‐Fouling Fluoropolymers for Bioconjugation and In‐Vivo Tracking. <i>Angewandte Chemie</i> , 2020, 132, 4759-4765.	2.0	22
24	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
25	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
26	In silico study of bio-based epoxy precursors for sustainable and renewable thermosets. <i>Polymer</i> , 2020, 191, 122253.	3.8	20
27	CO ₂ /CH ₄ Separation in Ion-Exchanged Zeolite-like Metal Organic Frameworks with Sodalite Topology (sod-ZMOFs). <i>Journal of Physical Chemistry C</i> , 2013, 117, 15647-15658.	3.1	19
28	Structural Electrolytes Based on Epoxy Resins and Ionic Liquids: A Molecular-Level Investigation. <i>Macromolecules</i> , 2020, 53, 7635-7649.	4.8	19
29	Thermoresponsive Supramolecular Assemblies from Dendronized Amphiphiles To Form Fluorescent Spheres with Tunable Chirality. <i>ACS Nano</i> , 2021, 15, 20067-20078.	14.6	16
30	Propane/propylene separation in ion-exchanged zeolite-like metal organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2014, 198, 185-193.	4.4	14
31	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
32	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
33	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
34	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
35	Prediction of perfluorohexane adsorption in BCR-704 zeolite via molecular simulation. <i>Fluid Phase Equilibria</i> , 2014, 366, 152-158.	2.5	6
36	Dendronized polydiacetylenes via photo-polymerization of supramolecular assemblies showing thermally tunable chirality. <i>Chemical Communications</i> , 2021, 57, 12780-12783.	4.1	6

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37	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
38	A Bespoke Computational Procedure to Incorporate CO ₂ as a Renewable Feedstock into Polycarbonates. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2722-2731.	4.4	4
39	An automated in-situ polymerisation procedure for multi-functional cyanate ester resins via ring formation. <i>Polymer</i> , 2021, 228, 123938.	3.8	4
40	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
41	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
42	Correction: Determination of Kamlet-Taft parameters for selected solvate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19975-19975.	2.8	1
43	Modelling Amorphous Nanoporous Polymers Doped with an Ionic Liquid via an Adaptable Computational Procedure. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 11893-11904.	3.7	1