

Muhammad Rabnawaz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45 papers	983 citations	18 h-index	31 g-index
47 ext. papers	1,292 ext. citations	5.7 avg, IF	5.15 L-index

#	Paper	IF	Citations
45	Cover Image, Volume 139, Issue 7. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51078	2.9	
44	Universal polysiloxane additives for UV curable self-cleaning engineered surfaces. <i>Progress in Organic Coatings</i> , 2022 , 163, 106686	4.8	
43	Green analogs of polybutadienes from carbon dioxide and epoxy-based feedstocks. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50708	2.9	
42	A Dual-Wall 3D-Printed Anti-tampering Medical Bottle. <i>Journal of Packaging Technology and Research</i> , 2021 , 5, 89-95	3.1	
41	Base-Layer-Driven Self-Healing Materials. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 3922-3928	4.3	0
40	A comparative study of thallium(III) and iodine(III)-mediated ring contraction reactions for the synthesis of indane. <i>New Journal of Chemistry</i> , 2021 , 45, 2078-2084	3.6	2
39	Fabrication of oil- and water-resistant paper without creating microplastics on disposal. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49692	2.9	4
38	Melt-reprocessing of mixed polyurethane thermosets. <i>Green Chemistry</i> , 2021 , 23, 4771-4779	10	2
37	Oil- and water-resistant paper substrate using blends of chitosan-graft-polydimethylsiloxane and poly(vinyl alcohol). <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50494	2.9	2
36	Iodine(III)-Promoted Ring Expansion Reactions: A Metal-Free Approach toward Seven-Membered Heterocyclic Rings. <i>Asian Journal of Organic Chemistry</i> , 2021 , 10, 2549	3	2
35	Are telechelic polysiloxanes better than hemi-telechelic for self-cleaning applications?. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 174-186	9.3	0
34	Starch and Zein Biopolymers as a Sustainable Replacement for PFAS, Silicone Oil, and Plastic-Coated Paper. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12075-12084	3.9	11
33	Response Surface Methodology Design for Biobased and Sustainable Coatings for Water- and Oil-Resistant Paper. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1378-1387	4.3	13
32	High modulus, fluorine-free self-healing anti-smudge coatings. <i>Progress in Organic Coatings</i> , 2020 , 145, 105703	4.8	13
31	Self-healing and self-cleaning clear coating. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 311-318	9.3	17
30	Chitosan Graft Poly(dimethylsiloxane)/Zein Coatings for the Fabrication of Environmentally Friendly Oil- and Water-Resistant Paper. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5147-5155	8.3	25
29	Zein and PVOH-Based Bilayer Approach for Plastic-Free, Repulpable and Biodegradable Oil- and Water-Resistant Paper as a Replacement for Single-Use Plastics. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17856-17866	3.9	8

28	Covalent Adaptable Network and Self-Healing Materials: Current Trends and Future Prospects in Sustainability. <i>Polymers</i> , 2020 , 12,	4.5	15
27	Food-Safe Chitosan-Zein Dual-Layer Coating for Water- and Oil-Repellent Paper Substrates. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6887-6897	8.3	18
26	Simple Design for Durable and Clear Self-Cleaning Coatings. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 2652-2667	4.3	19
25	A novel dual-layer approach towards omniphobic polyurethane coatings.. <i>RSC Advances</i> , 2019 , 9, 26703-26711	3.7	22
24	Dual-Layer Approach toward Self-Healing and Self-Cleaning Polyurethane Thermosets. <i>Polymers</i> , 2019 , 11,	4.5	17
23	A closed-loop and sustainable approach for the fabrication of plastic-free oil- and water-resistant paper products. <i>Green Chemistry</i> , 2019 , 21, 5691-5700	10	23
22	Oil- and Water-Resistant Coatings for Porous Cellulosic Substrates. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 103-111	4.3	28
21	Synthesis of high molecular weight aromatic polyesters via integrated alternating ring-opening copolymerization and chain extension methods. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47200	2.9	2
20	Catalytic liquefaction of pine sawdust and in-situ hydrogenation of bio-crude over bifunctional Co-Zn/HZSM-5 catalysts. <i>Fuel</i> , 2018 , 223, 252-260	7.1	35
19	Synthesis of novel macrocycles carrying pincer-type ligands as future candidates for potential applications in size-selective, stereochemical and recyclable catalysts. <i>Journal of Molecular Structure</i> , 2018 , 1155, 734-744	3.4	0
18	Fabrication of Food-Safe Water-Resistant Paper Coatings Using a Melamine Primer and Polysiloxane Outer Layer. <i>ACS Omega</i> , 2018 , 3, 11909-11916	3.9	29
17	Synthesis of High Molecular Weight Polyester Using in Situ Drying Method and Assessment of Water Vapor and Oxygen Barrier Properties. <i>Polymers</i> , 2018 , 10,	4.5	7
16	A roadmap towards green packaging: the current status and future outlook for polyesters in the packaging industry. <i>Green Chemistry</i> , 2017 , 19, 4737-4753	10	161
15	Upgrading pyrolysis bio-oil through hydrodeoxygenation (HDO) using non-sulfided Fe-Co/SiO ₂ catalyst. <i>Energy Conversion and Management</i> , 2017 , 150, 331-342	10.6	81
14	Graft-copolymer-based approach to clear, durable, and anti-smudge polyurethane coatings. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6516-20	16.4	86
13	Coating of silica particles by fluorinated diblock copolymers and use of the resultant silica for superamphiphobic surfaces. <i>Polymer</i> , 2015 , 64, 153-162	3.9	24
12	Synthesis of poly(dimethylsiloxane)-block-poly[3-(triisopropylloxysilyl) propyl methacrylate] and its use in the facile coating of hydrophilically patterned superhydrophobic fabrics. <i>RSC Advances</i> , 2015 , 5, 39505-39511	3.7	26
11	Rücktitelbild: Graft-Copolymer-Based Approach to Clear, Durable, and Anti-Smudge Polyurethane Coatings (Angew. Chem. 22/2015). <i>Angewandte Chemie</i> , 2015 , 127, 6752-6752	3.6	

10	Fluorine-Free Anti-Smudge Polyurethane Coatings. <i>Angewandte Chemie</i> , 2015 , 127, 12913-12918	3.6	24
9	Graft-Copolymer-Based Approach to Clear, Durable, and Anti-Smudge Polyurethane Coatings. <i>Angewandte Chemie</i> , 2015 , 127, 6616-6620	3.6	12
8	Fluorine-Free Anti-Smudge Polyurethane Coatings. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12722-7	16.4	98
7	Quantification of residual liquid on repellent cotton fabrics after liquid roll off. <i>RSC Advances</i> , 2015 , 5, 103722-103728	3.7	4
6	Hydrophilically patterned superhydrophobic cotton fabrics and their use in ink printing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8094-8102	13	61
5	Triblock Terpolymers Bearing a Redox-Cleavable Junction and a Photo-Cross-Linkable Block. <i>Macromolecules</i> , 2014 , 47, 5115-5123	5.5	14
4	Clear antismudge unimolecular coatings of diblock copolymers on glass plates. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21435-45	9.5	29
3	Preparation and Application of a Dual Light-Responsive Triblock Terpolymer. <i>Macromolecules</i> , 2012 , 45, 5586-5595	5.5	43
2	New alternatives to single-use plastics: Starch and chitosan-graft-polydimethylsiloxane-coated paper for water- and oil-resistant applications. <i>Nano Select</i> ,	3.1	2
1	Oxygen and water vapor barrier properties of polyvinyl alcohol and zein bilayer-coated paper. <i>Journal of Applied Polymer Science</i> , 51707	2.9	0