

Murat Barsbay

List of Publications by Year in descending order

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48
papers

1,579
citations

279798

23
h-index

302126

39
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48
all docs

48
docs citations

48
times ranked

1624
citing authors

#	ARTICLE	IF	CITATIONS
1	Verification of Controlled Grafting of Styrene from Cellulose via Radiation-Induced RAFT Polymerization. <i>Macromolecules</i> , 2007, 40, 7140-7147.	4.8	176
2	Current approaches to waste polymer utilization and minimization: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 8-21.	3.2	160
3	RAFT-mediated polymerization and grafting of sodium 4-styrenesulfonate from cellulose initiated via $\hat{\gamma}$ -radiation. <i>Polymer</i> , 2009, 50, 973-982.	3.8	115
4	CRISPR Systems for COVID-19 Diagnosis. <i>ACS Sensors</i> , 2021, 6, 1430-1445.	7.8	100
5	Porous cellulosic adsorbent for the removal of Cd (II), Pb(II) and Cu(II) ions from aqueous media. <i>Radiation Physics and Chemistry</i> , 2018, 142, 70-76.	2.8	70
6	A short review of radiation-induced raft-mediated graft copolymerization: A powerful combination for modifying the surface properties of polymers in a controlled manner. <i>Radiation Physics and Chemistry</i> , 2009, 78, 1054-1059.	2.8	55
7	Nanopore size tuning of polymeric membranes using the RAFT-mediated radical polymerization. <i>Journal of Membrane Science</i> , 2013, 445, 135-145.	8.2	51
8	RAFT mediated grafting of poly(acrylic acid) (PAA) from polyethylene/polypropylene (PE/PP) nonwoven fabric via preirradiation. <i>Polymer</i> , 2013, 54, 4838-4848.	3.8	49
9	Radiation-induced and RAFT-mediated grafting of poly(hydroxyethyl methacrylate) (PHEMA) from cellulose surfaces. <i>Radiation Physics and Chemistry</i> , 2014, 94, 98-104.	2.8	46
10	Harnessing nanoparticles for the efficient delivery of the CRISPR/Cas9 system. <i>Nano Today</i> , 2020, 34, 100895.	11.9	45
11	Functionalization of cellulose with epoxy groups via $\hat{\gamma}$ -initiated RAFT-mediated grafting of glycidyl methacrylate. <i>Cellulose</i> , 2014, 21, 4067-4079.	4.9	42
12	Complete ablation of tumors using synchronous chemoradiation with bimetallic theranostic nanoparticles. <i>Bioactive Materials</i> , 2022, 7, 74-84.	15.6	41
13	Surface modification of cellulose via conventional and controlled radiation-induced grafting. <i>Radiation Physics and Chemistry</i> , 2019, 160, 1-8.	2.8	40
14	Nanostructuring of polymers by controlling of ionizing radiation-induced free radical polymerization, copolymerization, grafting and crosslinking by RAFT mechanism. <i>Radiation Physics and Chemistry</i> , 2020, 169, 107816.	2.8	34
15	Functionalized nanoporous track-etched $\hat{\gamma}$ -PVDF membrane electrodes for lead(ii) determination by square wave anodic stripping voltammetry. <i>Analytical Methods</i> , 2011, 3, 1351.	2.7	33
16	The effect of oxidizing agents/systems on the properties of track-etched PET membranes. <i>Polymer Degradation and Stability</i> , 2014, 107, 150-157.	5.8	33
17	Towards new proton exchange membrane materials with enhanced performance via RAFT polymerization. <i>Polymer Chemistry</i> , 2016, 7, 701-714.	3.9	33
18	Grafting in confined spaces: Functionalization of nanochannels of track-etched membranes. <i>Radiation Physics and Chemistry</i> , 2014, 105, 26-30.	2.8	32

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19	Poly(2-hydroxyethyl methacrylate) (PHEMA) grafted polyethylene/polypropylene (PE/PP) nonwoven fabric by I^{137} -initiation: Synthesis, characterization and benefits of RAFT mediation. <i>Radiation Physics and Chemistry</i> , 2014, 105, 31-38.	2.8	31
20	Grafting of N,N-dimethylaminoethyl methacrylate from PE/PP nonwoven fabric via radiation-induced RAFT polymerization and quaternization of the grafts. <i>Radiation Physics and Chemistry</i> , 2016, 124, 145-154.	2.8	31
21	Miscibility of dextran and poly(ethylene glycol) in solid state: Effect of the solvent choice. <i>Carbohydrate Polymers</i> , 2007, 69, 214-223.	10.2	30
22	A smartphone-based colorimetric PET sensor platform with molecular recognition via thermally initiated RAFT-mediated graft copolymerization. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126653.	7.8	29
23	Activation of Polyethylene/Polypropylene Nonwoven Fabric by Radiation-Induced Grafting for the Removal of Cr(VI) from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	25
24	Amine functionalization of cellulose surface grafted with glycidyl methacrylate by I^{137} -initiated RAFT polymerization. <i>Radiation Physics and Chemistry</i> , 2016, 124, 140-144.	2.8	25
25	Iron oxide and gold bimetallic radiosensitizers for synchronous tumor chemoradiation therapy in 4T1 breast cancer murine model. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4510-4522.	5.8	22
26	Removal of phosphate using copper-loaded polymeric ligand exchanger prepared by radiation grafting of polypropylene/polyethylene (PP/PE) nonwoven fabric. <i>Radiation Physics and Chemistry</i> , 2010, 79, 227-232.	2.8	21
27	Preparation of well-defined erythromycin imprinted non-woven fabrics via radiation-induced RAFT-mediated grafting. <i>Radiation Physics and Chemistry</i> , 2018, 142, 77-81.	2.8	21
28	Cu/CuO Composite Track-Etched Membranes for Catalytic Decomposition of Nitrophenols and Removal of As(III). <i>Nanomaterials</i> , 2020, 10, 1552.	4.1	21
29	Method for preparing a well-defined molecularly imprinted polymeric system via radiation-induced RAFT polymerization. <i>European Polymer Journal</i> , 2018, 103, 21-30.	5.4	20
30	Application of Silver-Loaded Composite Track-Etched Membranes for Photocatalytic Decomposition of Methylene Blue under Visible Light. <i>Membranes</i> , 2021, 11, 60.	3.0	18
31	A Novel Cu ₂ O/ZnO@PET Composite Membrane for the Photocatalytic Degradation of Carbendazim. <i>Nanomaterials</i> , 2022, 12, 1724.	4.1	16
32	Kinetic and Isotherm Study of As(III) Removal from Aqueous Solution by PET Track-Etched Membranes Loaded with Copper Microtubes. <i>Membranes</i> , 2021, 11, 116.	3.0	14
33	Modification of polystyrene cell-culture-dish surfaces by consecutive grafting of poly(acrylamide)/poly(N-isopropylacrylamide) via reversible addition-fragmentation chain transfer-mediated polymerization. <i>European Polymer Journal</i> , 2021, 147, 110330.	5.4	14
34	Effect of brush length of stabilizing grafted matrix on size and catalytic activity of metal nanoparticles. <i>European Polymer Journal</i> , 2020, 134, 109811.	5.4	13
35	Green and Facile Synthesis of Pullulan-Stabilized Silver and Gold Nanoparticles for the Inhibition of Quorum Sensing. <i>ACS Applied Bio Materials</i> , 2022, 5, 517-527.	4.6	13
36	Synthesis of new hydrogels based on the macromolecular reaction of citraconic anhydride copolymers with I^{137} -aminopropyltriethoxysilane (APTS). <i>Polymers for Advanced Technologies</i> , 2005, 16, 32-37.	3.2	10

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37	Miscibility of dextran and poly(ethylene glycol) in dilute aqueous solutions. II. Effect of temperature and composition. <i>Journal of Applied Polymer Science</i> , 2006, 100, 4587-4594.	2.6	8
38	Functionalization of poly(ester-urethane) surface by radiation-induced grafting of <i>N</i> -isopropylacrylamide using conventional and reversible addition-fragmentation chain transfer-mediated methods. <i>Polymer International</i> , 2016, 65, 192-199.	3.1	7
39	Synthesis of well-defined molecularly imprinted bulk polymers for the removal of azo dyes from water resources. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100196.	5.6	7
40	Design and Properties of New Functional Water Soluble Polymers of Citraconic Anhydride (CA) and Related Copolymers. <i>Polymer Bulletin</i> , 2005, 53, 305-314.	3.3	5
41	An innovative green approach to the production of bio-sourced and nano-sized graphene oxide (GO)-like carbon flakes. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, , 100200.	5.6	5
42	Curcumin delivery by modified biosourced carbon-based nanoparticles. <i>Nanomedicine</i> , 2022, 17, 95-105.	3.3	5
43	Metronidazole conjugated bismuth sulfide nanoparticles for enhanced X-ray radiation therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 71, 103336.	3.0	4
44	Functionalized Nanoporous Track-Etched b-PVDF Membrane Electrodes for Heavy Metal Determination by Square-Wave Anodic Stripping Voltammetry. <i>E3S Web of Conferences</i> , 2013, 1, 37006.	0.5	3
45	Experimental and theoretical approaches to investigating the miscibility of anhydride-containing copolymers and dextran. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2132-2141.	2.6	2
46	A porous fabric-based molecularly imprinted polymer for specific recognition of tetracycline by radiation-induced RAFT-mediated graft copolymerization. <i>Radiation Physics and Chemistry</i> , 2022, 199, 110314.	2.8	2
47	Modification of cellulose by RAFT mediated graft copolymerization. <i>Hacettepe Journal of Biology and Chemistry</i> , 2014, 1, 1-1.	0.9	1
48	One-pot modification of oleate-capped UCNPs with AS1411 G-quadruplex DNA in a fully aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128675.	4.7	1