Ali Reza Mahdavian

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6809174/publications.pdf

Version: 2024-02-01

102	3,019	134610	214428
papers	citations	34 h-index	50 g-index

103	103	103	3438
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, characterization, and photochromism study of two spiropyran molecules with a terminal alkynyl functional group and their new 1,2,3-triazoline-containing derivatives. Journal of the Iranian Chemical Society, 2022, 19, 1661-1668.	1.2	1
2	Spiropyran and spironaphthoxazine based opto-chemical probes for instant ion detection with high selectivity and sensitivity to trace amounts of cyanide. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 424, 113626.	2.0	23
3	Continuous flow cationic polymerizations. Chemical Engineering Journal, 2022, 430, 132791.	6.6	13
4	Spiropyran-based advanced photoswitchable materials: A fascinating pathway to the future stimuli-responsive devices. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 51, 100487.	5.6	76
5	Ready-to-use optical H2O2 sensor based on stimuli-responsive polyacrylic film and nanofibers containing spiropyran. Dyes and Pigments, 2022, 204, 110399.	2.0	1
6	Preparation of Photoswitchable Polyacrylic Nanocomposite Fibers Containing Au Nanorods and Spiropyran: Optical and Plasmonic Properties. Langmuir, 2022, 38, 8428-8441.	1.6	8
7	CO2-, electric potential-, and photo-switchable-hydrophilicity membrane (x-SHM) as an efficient color-changeable tool for oil/water separation. Polymer, 2021, 212, 123250.	1.8	18
8	MTX-Loaded Dual Thermoresponsive and pH-Responsive Magnetic Hydrogel Nanocomposite Particles for Combined Controlled Drug Delivery and Hyperthermia Therapy of Cancer. Molecular Pharmaceutics, 2021, 18, 275-284.	2.3	45
9	Spectral and kinetic manifestations of chain flexibility and polarity in the reversible photoisomerization of spironaphthoxazine-based acrylic copolymers. New Journal of Chemistry, 2021, 45, 9975-9983.	1.4	4
10	Magneto-responsive photochromic acrylic copolymer nanoparticles: An investigation into the mutual interactions and photoisomerization kinetics. Polymer, 2021, 218, 123524.	1.8	2
11	Rhodamine-based fluorescent polyacrylic nanoparticles: A highly selective and sensitive chemosensor for Fe (II) and Fe (III) cations in water. Journal of Environmental Chemical Engineering, 2021, 9, 105082.	3.3	25
12	Synthesis, characterization, and UVâ€“visible study of some new photochromic formyl-containing 1â€²,3â€²,3â€²-trimethylspiro[chromene-2,2â€²-indoline] derivatives. Journal of the Iranian Chemical Society, 2021, 18, 3061-3067.	1.2	4
13	Spiropyran-based photoswitchable acrylic nanofibers: A stimuli-responsive substrate for light controlled C6 glioma cells attachment/detachment. Colloids and Surfaces B: Biointerfaces, 2021, 203, 111731.	2.5	21
14	Dual thermo- and pH-responsive poly(N-isopropylacrylamide-co-(2-dimethylamino) ethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (n Bulletin, 2020, 77, 3129-3142.	1.7	13
15	A thermo-kinetic study on acrylic copolymer nanocomposite particles containing GMA-modified nanosilica prepared via miniemulsion polymerization. Materials Chemistry and Physics, 2020, 240, 122126.	2.0	10
16	Enhanced radiosensitivity of LNCaP prostate cancer cell line by gold-photoactive nanoparticles modified with folic acid. Photodiagnosis and Photodynamic Therapy, 2020, 29, 101602.	1.3	18
17	Hydrochromic and photoswitchable polyacrylic nanofibers containing spiropyran in eco-friendly ink-free rewriteable sheets with responsivity to humidity. Dyes and Pigments, 2020, 175, 108185.	2.0	40
18	Solvent-free and anticounterfeiting fluorescent inks based on epoxy-functionalized polyacrylic nanoparticles modified with Rhodamine B for cellulosic substrates. Journal of Industrial and Engineering Chemistry, 2020, 92, 287-296.	2.9	16

#	Article	IF	Citations
19	Anticounterfeiting and photoluminescent cellulosic papers based on fluorescent acrylic copolymer nanoparticles containing coumarin. Carbohydrate Polymers, 2020, 247, 116756.	5.1	32
20	Solid-state photochromism of spironaphthoxazine loaded microcapsules with photo-patterning and thermo-regulating features. Journal of Colloid and Interface Science, 2020, 578, 379-389.	5.0	37
21	Progressive Readout Platform Based on Photoswitchable Polyacrylic Nanofibers Containing Spiropyran in Photopatterning with Instant Responsivity to Acidâ€“Base Vapors. Macromolecules, 2020, 53, 1613-1622.	2.2	48
22	Alternating Magnetic Field and Ultrasound Waves as Size Controlling Parameters in Preparation of Superparamagnetic Fe₃O₄ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2020, 20, 871-877.	0.9	5
23	Controlled Release and Photothermal Behavior of Multipurpose Nanocomposite Particles Containing Encapsulated Gold-Decorated Magnetite and 5-FU in Poly(lactide-co-glycolide). ACS Biomaterials Science and Engineering, 2019, 5, 4425-4434.	2.6	27
24	Controlled photoisomerization in acrylic copolymer nanoparticles based on spironaphthoxazine for reduced thermal reversion. European Polymer Journal, 2019, 119, 487-498.	2.6	16
25	The effect of PANI and MWCNT on magnetic and photocatalytic properties of substituted barium hexaferrite nanocomposites. Materials Chemistry and Physics, 2019, 236, 121786.	2.0	7
26	High performance cyanide sensing with tunable limit of detection by stimuli-responsive gold nanoparticles modified with poly (N,N-dimethylaminoethyl methacrylate). Talanta, 2019, 204, 198-205.	2.9	17
27	Emulsion and miniemulsion techniques in preparation of polymer nanoparticles with versatile characteristics. Advances in Colloid and Interface Science, 2019, 269, 152-186.	7.0	68
28	Anisotropic magnetite nanoclusters with enhanced magnetization as an efficient ferrofluid in mass transfer and liquid hyperthermia. New Journal of Chemistry, 2019, 43, 8044-8051.	1.4	6
29	Effect of Sn⁴⁺â€“Zn²⁺â€“Co²⁺ Doping on Structural and Magnetic Properties of M-Type Barium Hexaferrites. IEEE Transactions on Magnetics, 2019, 55, 1-6.	1.2	8
30	Evaluation of the effect of hyperthermia and electron radiation on prostate cancer stem cells. Radiation and Environmental Biophysics, 2018, 57, 133-142.	0.6	17
31	Polymerization induced shape-tuning and multi-triggered switchability of gold nanostructures. Polymer, 2018, 138, 302-306.	1.8	4
32	Preparation of acrylic PCM microcapsules with dual responsivity to temperature and magnetic field changes. European Polymer Journal, 2018, 101, 18-28.	2.6	32
33	A step-wise self-assembly approach in preparation of multi-responsive poly(styrene-co-methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1 58-69.	5.0	28
34	Improvement of UF/fiberglass mat properties used in roofing shingles through emulsion polymers and nanoclay addition. Iranian Polymer Journal (English Edition), 2018, 27, 67-76.	1.3	6
35	Enhanced Photogeneration of Reactive Oxygen Species and Targeted Photothermal Therapy of C6 Glioma Brain Cancer Cells by Folate-Conjugated Goldâ€“Photoactive Polymer Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 19483-19493.	4.0	82
36	Efficient approach to in-situ preparation of anisotropic and assemblable gold nanoparticles mediated by stimuli-responsive PDMAEMA. European Polymer Journal, 2018, 104, 106-114.	2.6	16

#	Article	IF	Citations
37	Photochromic properties of stimuli-responsive cellulosic papers modified by spiropyran-acrylic copolymer in reusable pH-sensors. Carbohydrate Polymers, 2018, 200, 583-594.	5.1	72
38	Thermal and morphological studies on novel PCM microcapsules containing n-hexadecane as the core in a flexible shell. Applied Energy, 2017, 190, 612-622.	5.1	89
39	Photoswitchable dual-color fluorescent particles from seeded emulsion polymerization and role of some affecting parameters on FRET process. European Polymer Journal, 2017, 88, 56-66.	2.6	35
40	Facile and fast photosensing of polarity by stimuli-responsive materials based on spiropyran for reusable sensors: a physico-chemical study on the interactions. Journal of Materials Chemistry C, 2017, 5, 6588-6600.	2.7	73
41	Effects of Chain Parameters on Kinetics of Photochromism in Acrylicâ€“Spiropyran Copolymer Nanoparticles and Their Reversible Optical Data Storage. Langmuir, 2017, 33, 8023-8031.	1.6	42
42	Efficient modification of nanosilica particles in preparation of anti-scratch transparent polyacrylic films through miniemulsion polymerization. Polymer Bulletin, 2017, 74, 1879-1898.	1.7	7
43	Chemical modification of magnetite nanoparticles and preparation of acrylic-base magnetic nanocomposite particles via miniemulsion polymerization. Journal of Magnetism and Magnetic Materials, 2017, 426, 230-238.	1.0	31
44	Preparation of Fast Photoresponsive Cellulose and Kinetic Study of Photoisomerization. Journal of Physical Chemistry C, 2016, 120, 9985-9991.	1.5	49
45	Stimuli-responsive cellulose modified by epoxy-functionalized polymer nanoparticles with photochromic and solvatochromic properties. Carbohydrate Polymers, 2016, 150, 131-138.	5.1	59
46	Redispersible PMMA latex nanoparticles containing spiropyran with photo-, pH- and CO2- responsivity. Polymer, 2016, 101, 274-283.	1.8	40
47	FRET-based acrylic nanoparticles with dual-color photoswitchable properties in DU145 human prostate cancer cell line labeling. Polymer, 2016, 98, 263-269.	1.8	36
48	Ultrasound-assisted emulsion polymerization of poly(methyl methacrylate-co-butyl acrylate): Effect of initiator content and temperature. Polymer Engineering and Science, 2016, 56, 214-221.	1.5	7
49	Preparation of acrylic/MWNTs nanocomposite latexes via ultrasonically-assisted emulsion polymerization: A comparative study. European Polymer Journal, 2016, 75, 104-115.	2.6	5
50	FRET Phenomenon in Photoreversible Dual-Color Fluorescent Polymeric Nanoparticles Based on Azocarbazole/Spiropyran Derivatives. Macromolecules, 2016, 49, 141-152.	2.2	79
51	Chitosan and functionalized acrylic nanoparticles as the precursor of new generation of bio-based antibacterial films. Materials Science and Engineering C, 2016, 59, 1-9.	3.8	24
52	Preparation of acrylic/silica nanocomposites latexes with potential application in pressure sensitive adhesive. International Journal of Adhesion and Adhesives, 2015, 58, 21-27.	1.4	38
53	Chemical modification of TiO2 nanoparticles as an effective way for encapsulation in polyacrylic shell via emulsion polymerization. Progress in Organic Coatings, 2015, 88, 310-315.	1.9	15
54	Preparation of Stimuli-Responsive Functionalized Latex Nanoparticles: The Effect of Spiropyran Concentration on Size and Photochromic Properties. Langmuir, 2015, 31, 10672-10682.	1.6	77

#	Article	IF	Citations
55	TPU/PCL/nanomagnetite ternary shape memory composites: studies on their thermal, dynamic-mechanical, rheological and electrical properties. Iranian Polymer Journal (English Edition), 2014, 23, 137-145.	1.3	18
56	Preparation of coreâ€“shell impact modifier particles for PVC with nanometric shell thickness through seeded emulsion polymerization. Iranian Polymer Journal (English Edition), 2014, 23, 27-35.	1.3	10
57	Optimization of parameters in preparation of PCM microcapsules based on melamine formaldehyde through dispersion polymerization. Colloid and Polymer Science, 2014, 292, 355-368.	1.0	50
58	Kinetic and thermodynamic correlation for prediction of morphology of nanocapsules with hydrophobic core via miniemulsion polymerization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 462, 18-26.	2.3	12
59	Particle size and shell composition as effective parameters on MFFT for acrylic coreâ€“shell particles prepared via seeded emulsion polymerization. Progress in Organic Coatings, 2014, 77, 1874-1882.	1.9	17
60	Gold deposition on Fe₃O₄/(co)Poly(Nâ€octadecyl methacrylate) hybrid particles to obtain nanocomposites With ternary intrinsic features. Journal of Applied Polymer Science, 2013, 127, 3768-3777.	1.3	5
61	Evaluation of the cytotoxic effect of PLGA coated iron oxide nanoparticles as 5-fluorouracil carrier on DU 145 human prostate carcinoma cell line. , 2012, , .		0
62	Controlling the morphology and surface property of magnetic/cisplatin-loaded nanocapsules via W/O/W double emulsion method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 408, 87-96.	2.3	37
63	RAFT-mediated emulsion polymerization of vinyl acetate: a challenge towards producing high molecular weight poly(vinyl acetate). Colloid and Polymer Science, 2012, 290, 1247-1255.	1.0	19
64	A multiple emulsion method for loading 5-fluorouracil into a magnetite-loaded nanocapsule: a physicochemical investigation. Polymer International, 2012, 61, 850-859.	1.6	39
65	Self-assembled nanomicelles using PLGAâ€“PEG amphiphilic block copolymer for insulin delivery: a physicochemical investigation and determination of CMC values. Journal of Materials Science: Materials in Medicine, 2012, 23, 943-953.	1.7	49
66	Modifying montmorillonite clay via silane grafting and interfacial polycondensation for melt compounding of nylonâ€66 nanocomposite. Journal of Applied Polymer Science, 2012, 124, 1501-1510.	1.3	11
67	Preparation of Magnetic Chitosan Nanocomposite Particles and Their Susceptibility for Cellular Separation Applications. Journal of Colloid Science and Biotechnology, 2012, 1, 82-88.	0.2	39
68	New Approach for the Elucidation of PCM Nanocapsules through Miniemulsion Polymerization with an Acrylic Shell. Macromolecules, 2011, 44, 7405-7414.	2.2	96
69	Kinetic studies of the preparation of nanocomposites based on encapsulated Cloisite 30B in poly[styreneâ€coâ€(butyl acrylate)] via miniâ€emulsion polymerization. Polymer International, 2011, 60, 613-619.	1.6	10
70	Preparation of latexes based on amineâ€modified acrylic nanoparticles via seeded emulsion and miniemulsion polymerization. Advances in Polymer Technology, 2011, 30, 276-285.	0.8	5
71	Efficient Dispersion of Magnetite Nanoparticles in the Polyurethane Matrix Through Solution Mixing and Investigation of the Nanocomposite Properties. Journal of Inorganic and Organometallic Polymers and Materials, 2010, 20, 213-219.	1.9	56
72	Physical and mechanical properties of nanocomposite barrier film containing encapsulated nanoclay. Journal of Applied Polymer Science, 2010, 118, 3284-3291.	1.3	22

#	Article	IF	Citations
73	An Investigation into the UV-Photo-Oxidative Degradation of LDPE by Using Cobalt Naphthenate as Photosensitizer. Polymer-Plastics Technology and Engineering, 2010, 49, 718-724.	1.9	7
74	Efficient separation of heavy metal cations by anchoring polyacrylic acid on superparamagnetic magnetite nanoparticles through surface modification. Chemical Engineering Journal, 2010, 159, 264-271.	6.6	261
75	Nanocomposite particles with core-shell morphology IV: an efficient approach to the encapsulation of Cloisite 30B by poly (styrene-co-butyl acrylate) and preparation of its nanocomposite latex via miniemulsion polymerization. Colloid and Polymer Science, 2009, 287, 725-732.	1.0	28
76	Nanocomposite particles with coreâ€“shell morphology III: preparation and characterization of nano Al2O3â€“poly(styreneâ€“methyl methacrylate) particles via miniemulsion polymerization. Polymer Bulletin, 2009, 63, 329-340.	1.7	45
77	Preparation of the Î³â€Al₂O₃/PANI nanocomposite via enzymatic polymerization. Polymer Composites, 2009, 30, 841-846.	2.3	19
78	An investigation into the improvement of adhesive strength of polyimides by incorporation of elastomeric nanoparticles. Journal of Colloid and Interface Science, 2009, 336, 872-878.	5.0	13
79	Nanocomposite particles with coreâ€shell morphology. I. Preparation and characterization of Fe₃O₄â€“poly(butyl acrylateâ€styrene) particles via miniemulsion polymerization. Journal of Applied Polymer Science, 2008, 110, 1242-1249.	1.3	54
80	Nanocomposite particles with coreâ€“shell morphology II. An investigation into the affecting parameters on preparation of Fe3O4-poly (butyl acrylateâ€“styrene) particles via miniemulsion polymerization. European Polymer Journal, 2008, 44, 2482-2488.	2.6	35
81	Kinetic Study of Radical Polymerization VIII. A Comprehensive Study of Solution Copolymerization of Vinyl Acetate and Methyl Acrylate by1Hâ€NMR Spectroscopy. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 839-848.	1.2	9
82	Kinetic study of radical polymerization. VII. Investigation into the solution copolymerization of acrylonitrile and itaconic acid by real-time1H NMR spectroscopy. Journal of Applied Polymer Science, 2007, 103, 3253-3260.	1.3	18
83	Preparation of poly (styreneâ€“methyl methacrylate)/SiO2 composite nanoparticles via emulsion polymerization. An investigation into the compatiblization. European Polymer Journal, 2007, 43, 336-344.	2.6	111
84	Flame-Retardancy Improvement of Novel Styreneâ€“Maleic Anhydride Based Copolymers. Journal of Polymer Research, 2007, 13, 413-419.	1.2	7
85	Kinetic study of radical polymerization. IV: Solid-melt state co-polymerization of acrylamide and sodium methacrylate by DSC. Designed Monomers and Polymers, 2006, 9, 439-451.	0.7	0
86	Kinetic Study of Radical Polymerization VI. Copolymer Composition and Kinetic Parameters for Coplymerization of Styreneâ€Itaconic Acid by Onâ€Line1Hâ€NMR. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1597-1608.	1.2	7
87	The Effect of Sodium Dodecyl Benzene Sulfonate on Particle Size in Suspension Polymerization of Styrene: A New Investigation. Polymer-Plastics Technology and Engineering, 2006, 45, 109-115.	1.9	4
88	The comparison between initial charge, shot and modified shot processes and their effects on macrostructure of particles in emulsion copolymerization of styreneâ€“butadieneâ€“acrylic acid. Reactive and Functional Polymers, 2006, 66, 247-254.	2.0	11
89	Kinetic study of radical polymerization. IV. Determination of reactivity ratio in copolymerization of styrene and itaconic acid by1H-NMR. Journal of Applied Polymer Science, 2006, 101, 2062-2069.	1.3	31
90	Kinetic Study of Radical Polymerization v. Determination of Reactivity Ratio in Copolymerization of Acrylonitrile and Itaconic Acid by1Hâ€NMR. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1583-1596.	1.2	15

#	Article	IF	Citations
91	Kinetic study of radical polymerization. III. Solution polymerization of acrylamide by1H-NMR. Journal of Applied Polymer Science, 2004, 93, 2007-2013.	1.3	43
92	Investigation into the effect of carboxylic acid monomer on particle nucleation and growth in emulsifier-free emulsion copolymerization of styreneâ€“butadieneâ€“acrylic acid. Polymer, 2004, 45, 3233-3239.	1.8	32
93	Thermal and kinetic study of radical polymerization I. Melt state bulk polymerization of acrylamide by DSC. Journal of Applied Polymer Science, 2003, 87, 2335-2340.	1.3	16
94	Kinetic study of radical polymerization. II. Solid-state bulk polymerization of sodium methacrylate by differential scanning calorimetry. Journal of Applied Polymer Science, 2003, 90, 1648-1654.	1.3	9
95	A facile and efficient method for preparation of chiral supported poly(styreneâ€“divinylbenzene) copolymers. Reactive and Functional Polymers, 2002, 50, 217-223.	2.0	3
96	Efficient and novel method for surface oxidation of polypropylene in the solid phase using microwave irradiation. Journal of Applied Polymer Science, 2001, 79, 1317-1323.	1.3	12
97	Microwave assisted oxidation of polyethylene under solid-state conditions with potassium permanganate. European Polymer Journal, 2001, 37, 1199-1206.	2.6	19
98	Synthesis and characterization of novel optically active and flame-retardant heterocyclic polyimides. Journal of Applied Polymer Science, 2000, 76, 240-248.	1.3	34
99	Synthesis of novel photoactive heterocyclic polyimides containing naphthalene moieties via cycloaddition reactions. Journal of Applied Polymer Science, 2000, 78, 527-536.	1.3	5
100	Emulsion polymerization of styrene and DEAEMA with a core-shell structure. Journal of Applied Polymer Science, 2000, 78, 1977-1985.	1.3	8
101	Highly diastereoselective synthesis of novel polymers via tandem Diels-Alder-ene reactions. Polymer International, 1999, 48, 109-116.	1.6	44
102	Asymmetric polymerization via cycloaddition reactions. Journal of Polymer Science Part A, 1999, 37, 1211-1219.	2.5	50