Valter Castelvetro

List of Publications by Year
in descending order

87	2,496	201575 27	223716 46
papers	citations	h-index	g-index

91	91	91	2516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanostructured hybrid materials from aqueous polymer dispersions. Advances in Colloid and Interface Science, 2004, 108-109, 167-185.	7.0	149
2	Comparative evaluation of fluorinated and unfluorinated acrylic copolymers as water-repellent coating materials for stone. Journal of Applied Polymer Science, 2000, 76, 962-977.	1.3	146
3	The Hidden Microplastics: New Insights and Figures from the Thorough Separation and Characterization of Microplastics and of Their Degradation Byproducts in Coastal Sediments. Environmental Science & Technology, 2018, 52, 5634-5643.	4.6	128
4	Tailoring new fluorinated acrylic copolymers as protective coatings for marble. Journal of Cultural Heritage, 2002, 3, 309-316.	1.5	124
5	Release of harmful volatile organic compounds (VOCs) from photo-degraded plastic debris: A neglected source of environmental pollution. Journal of Hazardous Materials, 2020, 394, 122596.	6.5	118
6	Chain extension and branching of poly(ethylene terephthalate) (PET) with di- and multifunctional epoxy or isocyanate additives: An experimental and modelling study. Reactive and Functional Polymers, 2012, 72, 50-60.	2.0	117
7	New fluorinated acrylic polymers for improving weatherability of building stone materials. Progress in Organic Coatings, 1997, 32, 43-50.	1.9	77
8	Control of the photochemical reactivity of coordination compounds by formation of supramolecular structures: the case of the hexacyanocobaltate(III) anion associated with polyammonium macrocyclic receptors. Journal of the American Chemical Society, 1985, 107, 6888-6892.	6.6	65
9	Photochemical stability of partially fluorinated acrylic protective coatings I. Poly(2,2,2-trifluoroethyl methacrylate) and poly(1H,1H,2H,2H-perfluorodecyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 457 Td (n	2.0	65
10	Functionalized carbon nanotubes as a filler for dielectric elastomer composites with improved actuation performance. Smart Materials and Structures, 2013, 22, 055025.	1.8	53
11	Structure control, coating properties, and durability of fluorinated acrylic-based polymers. Journal of Coatings Technology, 2002, 74, 57-66.	0.7	50
12	Free radical generation upon plasma treatment of cotton fibers and their initiation efficiency in surface-graft polymerization. Journal of Colloid and Interface Science, 2005, 289, 455-465.	5.0	50
13	The application of the contact angle in monument protection: new materials and methods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 241, 299-312.	2.3	47
14	Synthesis and characterization of different poly(1-vinylindole)s for photorefractive materials. Journal of Polymer Science Part A, 2001, 39, 253-262.	2.5	45
15	UV-curing of acrylic formulations by means of polymeric photoinitiators with the active 2,6-dimethylbenzoylphosphine oxide moieties pendant from a tetramethylene side chain. Macromolecular Chemistry and Physics, 2002, 203, 1486-1496.	1.1	45
16	Cotton Fibers Encapsulated with Homo- and Block Copolymers:Â Synthesis by the Atom Transfer Radical Polymerization Grafting-From Technique and Solid-State NMR Dynamic Investigations. Biomacromolecules, 2007, 8, 498-508.	2.6	44
17	Evaluating Fluorinated Acrylic Latices as Textile Water and Oil Repellent Finishes. Textile Reseach Journal, 2001, 71, 399-406.	1.1	43
18	New methodologies for the detection, identification, and quantification of microplastics and their environmental degradation by-products. Environmental Science and Pollution Research, 2021, 28, 46764-46780.	2.7	43

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19	Rheological and Thermal Properties of Narrow Distribution Poly(ethyl acrylate)s. Macromolecules, 2006, 39, 1880-1889.	2.2	41
20	Surface Monitoring of Surfactant Phase Separation and Stability in Waterborne Acrylic Coatings. Chemistry of Materials, 2007, 19, 6107-6113.	3.2	39
21	Quantification of poly(ethylene terephthalate) micro- and nanoparticle contaminants in marine sediments and other environmental matrices. Journal of Hazardous Materials, 2020, 385, 121517.	6.5	38
22	A Systematic Study on the Degradation Products Generated from Artificially Aged Microplastics. Polymers, 2021, 13, 1997.	2.0	38
23	Nylon 6 and nylon 6,6 micro- and nanoplastics: A first example of their accurate quantification, along with polyester (PET), in wastewater treatment plant sludges. Journal of Hazardous Materials, 2021, 407, 124364.	6.5	36
24	Thorough Multianalytical Characterization and Quantification of Micro- and Nanoplastics from Bracciano Lakeâ€™s Sediments. Sustainability, 2020, 12, 878.	1.6	35
25	Soil contamination by microplastics in relation to local agricultural development as revealed by FTIR, ICP-MS and pyrolysis-GC/MS. Environmental Pollution, 2022, 303, 119016.	3.7	33
26	Amphiphilic Amylose-g-poly(meth)acrylate Copolymers through â€œClickâ€•onto Grafting Method. Biomacromolecules, 2011, 12, 388-398.	2.6	31
27	Graft Polymerisation of Functional Acrylic Monomers onto Cotton Fibres Activated by Continuous Ar Plasma. Plasma Processes and Polymers, 2006, 3, 48-57.	1.6	29
28	Microplastics in fish meal: Contamination level analyzed by polymer type, including polyester (PET), polyolefins, and polystyrene. Environmental Pollution, 2021, 273, 115792.	3.7	29
29	Copolymers of Isopropenyl Alkyl Ethers with Fluorinated Acrylates and Fluoroacrylates:Â Influence of Fluorine on Their Thermal, Photochemical, and Hydrolytic Stability. Macromolecules, 2006, 39, 1749-1758.	2.2	27
30	Expanding the application field of postâ€consumer poly(ethylene terephthalate) through structural modification by reactive blending. Journal of Applied Polymer Science, 2014, 131, .	1.3	27
31	Photochemical Stability of Partially Fluorinated Acrylic Protective Coatings. 2. Copolymers of 1H,1H,2H,2H-Perfluorodecyl Methacrylate with Unfluorinated Acrylic Esters. Chemistry of Materials, 2001, 13, 2843-2849.	3.2	26
32	Seeping plastics: Potentially harmful molecular fragments leaching out from microplastics during accelerated ageing in seawater. Water Research, 2022, 219, 118521.	5.3	26
33	Photochemical stability of partially fluorinated acrylic protective coatings IV. Copolymers of 2,2,2-trifluoroethyl methacrylate and methyl Î±-trifluoromethyl acrylate with vinyl ethers. Polymer Degradation and Stability, 2003, 79, 345-351.	2.7	25
34	Selective determination of poly(styrene) and polyolefin microplastics in sandy beach sediments by gel permeation chromatography coupled with fluorescence detection. Marine Pollution Bulletin, 2018, 136, 269-275.	2.3	25
35	Plastic breeze: Volatile organic compounds (VOCs) emitted by degrading macro- and microplastics analyzed by selected ion flow-tube mass spectrometry. Chemosphere, 2021, 270, 128612.	4.2	25
36	Part 3. Copolymers of 1H,1H,2H,2H-perfluorodecyl acrylate and 2,2,2-trifluoroethyl methacrylate with butyl methacrylate. Polymer International, 2001, 50, 863-868.	1.6	24

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37	On the surface properties of waterborne fluorinated coating polymers. , 2000, 278, 6-16.		23
38	Dynamic light scattering study of temperature and pH sensitive colloidal microgels. Journal of Non-Crystalline Solids, 2015, 407, 361-366.	1.5	23
39	Synthesis of three- and six-arms polystyrene via living/controlled free radical polymerisation. Polymer, 2001, 42, 9347-9353.	1.8	21
40	Hybrid Nanocomposite Films from Mono- and Multi-Functional POSS Copolyacrylates in Miniemulsion. Macromolecular Rapid Communications, 2006, 27, 619-625.	2.0	20
41	Investigation on the wettability properties of thin films of methacrylic polymers with partially fluorinated side chains. Macromolecular Chemistry and Physics, 1998, 199, 2425-2431.	1.1	19
42	Adapting the properties of new fluorinated acrylic polymers to suit the conservation of ancient monuments. Journal of Coatings Technology and Research, 1998, 81, 551-556.	0.2	19
43	Role of anionic and nonionic surfactants on the control of particle size and latex colloidal stability in the seeded emulsion polymerization of butyl methacrylate. Journal of Applied Polymer Science, 2006, 102, 3083-3094.	1.3	18
44	Homo- and copolymers of hexafluoroisopropyl methacrylate and ?-fluoroacrylate with alkyl vinyl ethers: Microstructure and thermal properties. Journal of Polymer Science Part A, 2001, 39, 32-45.	2.5	17
45	Formation of Short and Long Chain Branches during the Free Radical Functionalization of Polyamide 6 in the Melt. Macromolecules, 2006, 39, 2153-2161.	2.2	17
46	Polymer Identification and Specific Analysis (PISA) of Microplastic Total Mass in Sediments of the Protected Marine Area of the Meloria Shoals. Polymers, 2021, 13, 796.	2.0	17
47	Functionalization of polyolefins in the melt through reaction with molecules and macromolecules. Macromolecular Symposia, 1997, 118, 311-316.	0.4	16
48	Photoconductive films of poly-N-vinylindole-based blends for high-voltage photorefractive electrooptic cells. Synthetic Metals, 2003, 138, 341-345.	2.1	16
49	Characterization of the organic materials used in the painting of the vaulted ceiling at the Saadian Tomb of Mulay Ahmed Al-Mansour (Marrakech). Journal of Cultural Heritage, 2014, 15, 300-307.	1.5	15
50	Local structure of temperature and pH-sensitive colloidal microgels. Journal of Chemical Physics, 2015, 143, 114904.	1.2	15
51	D.c. electrical transport in a new conducting polymer: oxidized poly(N-vinylpyrrole). Synthetic Metals, 1992, 46, 127-131.	2.1	14
52	Fluorinated polymeric materials for the protection of monumental buildings. Macromolecular Symposia, 2000, 152, 211-222.	0.4	14
53	Crossover region and entanglement in nearly monodisperse poly(ethyl acrylates) studied with electron spin resonance spectroscopy. Philosophical Magazine, 2004, 84, 1555-1565.	0.7	14
54	Alkoxysilane Functional Acrylic Latexes: Influence of Copolymer Composition on Self-Curing Behavior and Film Properties. Macromolecular Symposia, 2005, 226, 289-302.	0.4	14

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55	Radical copolymerization of vinylidene cyanide with 2,2,2â€trifluoroethyl methacrylate: Structure and characterization. Journal of Polymer Science Part A, 2010, 48, 4900-4908.	2.5	14
56	A tri-block copolymer templated synthesis of gold nanostructures. Journal of Colloid and Interface Science, 2011, 357, 88-94.	5.0	14
57	Toward a Reversible Consolidation of Paper Materials Using Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2021, 13, 44972-44982.	4.0	14
58	Complex Dynamics of a Fluorinated Vinylidene Cyanide Copolymer Highlighted by Dielectric Relaxation Spectroscopy. Macromolecules, 2016, 49, 5104-5114.	2.2	12
59	Chitin Nanofibril-Nanolignin Complexes as Carriers of Functional Molecules for Skin Contact Applications. Nanomaterials, 2022, 12, 1295.	1.9	12
60	Preparation of Water Suspensions of Nanocalcite for Cultural Heritage Applications. Nanomaterials, 2018, 8, 254.	1.9	11
61	Multifunctional Poly(vinyl ethers) by Controlled Cationic Polymerisation in a Fluorinated Solvent. Macromolecular Chemistry and Physics, 2001, 202, 2093-2103.	1.1	10
62	Synthesis and reactivity of a fluorinated N-alkylmaleimide towards free-radical grafting and polymerization reactions. Journal of Fluorine Chemistry, 2004, 125, 315-328.	0.9	10
63	Novel Partially Fluorinated Copolymers: Evidence of the Effect of Fluorine on the Reactivity of the Unfluorinated Comonomer Units. Macromolecular Rapid Communications, 2005, 26, 75-81.	2.0	10
64	The reactivity of tungsten hexachloride with tetrahydrofuran and 2-methoxyethanol. Polyhedron, 2016, 117, 769-776.	1.0	10
65	Highly thermostable and crystalline poly(butylene adipate) bionanocomposites prepared by in situ polycondensation with organically modified Moroccan beidellite clay. Polymer International, 2017, 66, 939-949.	1.6	10
66	Leached degradation products from beached microplastics: A potential threat to coastal dune plants. Chemosphere, 2022, 303, 135287.	4.2	10
67	Thermal degradation behaviour of a nearly alternating copolymer of vinylidene cyanide with 2,2,2-trifluoroethyl methacrylate. Polymer Degradation and Stability, 2011, 96, 204-211.	2.7	9
68	Three different Î²â€cyclodextrins direct the emulsion copolymerization of a highly fluorinated methacrylate toward distinctive nanostructured particle morphologies. Journal of Polymer Science Part A, 2011, 49, 4518-4530.	2.5	9
69	Facile hydrophobic modification of hybrid poly(urethane-urea)methacrylate aqueous dispersions and films through blending with novel waterborne fluorinated acrylic copolymers. Colloid and Polymer Science, 2012, 290, 491-506.	1.0	9
70	Emulsion Blending Approach for the Preparation of Gelatin/Poly(butylene succinate-co-adipate) Films. ACS Biomaterials Science and Engineering, 2016, 2, 677-686.	2.6	8
71	Electrokinetic Characterization of Natural Stones Coated with Nanocomposites for the Protection of Cultural Heritage. Applied Sciences (Switzerland), 2018, 8, 1694.	1.3	8
72	Evolution of calcite surfaces upon thermal decomposition, characterized by electrokinetics, in-situ XRD, and SEM. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126761.	2.3	8

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73	Rapid Solvent-Free Microcrystalline Cellulose Melt Functionalization with<scp>l</scp>-Lactide for the Fabrication of Green Poly(lactic acid) Biocomposites. ACS Sustainable Chemistry and Engineering, 2022, 10, 9401-9410.	3.2	8
74	Title is missing!. Macromolecular Symposia, 2002, 187, 165-176.	0.4	7
75	Rotational dynamics ESR investigation of the cholestane spin probe dissolved in a narrow dispersity poly(ethyl acrylate): effect of the presence of trace amounts of free monomer. Macromolecular Chemistry and Physics, 2002, 203, 1445-1453.	1.1	4
76	Hierarchical dual-sized film surface morphologies self-generated from fluorinated binary latex blends boost hydrophobicity and lipophobicity. Journal of Colloid and Interface Science, 2012, 378, 210-221.	5.0	4
77	Conversion of post-industrial PET-PE scraps into compatibilized plastic blends for new applications. AIP Conference Proceedings, 2012, , .	0.3	3
78	Rheological Response of Polylactic Acid Dispersions in Water with Xanthan Gum. ACS Omega, 2022, 7, 12536-12548.	1.6	3
79	Electron beam sensitive LB films of fluorocarbon polymer. Materials Science and Engineering C, 2002, 22, 295-299.	3.8	2
80	Properties of a Dielectric Elastomer Actuator Modified by Dispersion of Functionalised Carbon Nanotubes. Advances in Science and Technology, 2012, 79, 41-46.	0.2	2
81	Characterization of the artist's palette from the polychrome decorations of the El Bahia Palace doors (Marrakesh, Morocco). Journal of Cultural Heritage, 2018, 33, 213-221.	1.5	2
82	Stilbene-Containing Liquid Crystalline Side Chain Homo- and Copolysiloxanes: Microphase Separation and Chemical Modification to Electroconducting Materials. Polymer International, 1996, 39, 37-46.	1.6	1
83	Liquid Crystalline Side Chain Polysiloxanes with 4-Cyano- and 4-Alkoxy-Stilbene Mesogenic Units. Journal of Macromolecular Science - Pure and Applied Chemistry, 1997, 34, 2205-2225.	1.2	1
84	<title>Poly(1-vinylindole) and some of its methyl derivatives as substrates for photorefractive materials: their synthesis, optical, and electrical characterization</title>. , 2000, 4104, 71.		1
85	Synthesis and electrooptical characterization of polysiloxanes containing indolyl groups acting as photoconductive substrates for photorefractive materials. E-Polymers, 2004, 4, .	1.3	1
86	Singling Out the Role of Molecular Weight in the Crystallization Kinetics of Polyester/Clay Bionanocomposites Obtained by In Situ Step Growth Polycondensation. ACS Applied Polymer Materials, 0, , .	2.0	1
87	Understanding the Source, Distribution, and Fate of Micro- and Nanoplastics in Natural Water Bodies. Environmental Science and Engineering, 2021, , 2167-2171.	0.1	0