

# Valentin Victor Jerca

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,283  
citations

361296

20  
h-index

377752

34  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired double network hydrogels: from covalent double network hydrogels via hybrid double network hydrogels to physical double network hydrogels. <i>Materials Horizons</i> , 2021, 8, 1173-1188.	6.4	230
2	Advances and opportunities in the exciting world of azobenzenes. <i>Nature Reviews Chemistry</i> , 2022, 6, 51-69.	13.8	149
3	Novel pendant azobenzene/polymer systems for second harmonic generation and optical data storage. <i>Dyes and Pigments</i> , 2015, 114, 24-32.	2.0	72
4	Defined High Molar Mass Poly(2-Oxazoline)s. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15400-15404.	7.2	68
5	Covalent Poly(2-Isopropenyl-2-Oxazoline) Hydrogels with Ultrahigh Mechanical Strength and Toughness through Secondary Terpyridine Metal Coordination Crosslinks. <i>Advanced Functional Materials</i> , 2019, 29, 1904886.	7.8	60
6	Structural Diversification of Pillar[5]arene Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6314-6316.	7.2	41
7	Poly(2-isopropenyl-2-oxazoline) Hydrogels for Biomedical Applications. <i>Chemistry of Materials</i> , 2018, 30, 7938-7949.	3.2	37
8	Poly(2-isopropenyl-2-oxazoline) as a versatile platform towards thermoresponsive copolymers. <i>Polymer Chemistry</i> , 2018, 9, 3473-3478.	1.9	36
9	High compression strength single network hydrogels with pillar[5]arene junction points. <i>Materials Horizons</i> , 2020, 7, 566-573.	6.4	36
10	Simultaneous two and three photon resonant enhancement of third-order NLO susceptibility in an azo-dye functionalized polymer film. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7060.	1.3	29
11	Bio-inspired Hydrogels as Multi-task Anti-icing Hydrogel Coatings. <i>CheM</i> , 2020, 6, 820-822.	5.8	29
12	2-Oxazoline based photo-responsive azo-polymers. Synthesis, characterization and isomerization kinetics. <i>European Polymer Journal</i> , 2013, 49, 452-463.	2.6	28
13	Photoresponsive Polymers on the Move. <i>CheM</i> , 2017, 3, 533-536.	5.8	28
14	Oxazoline-functional polymer particles graft with azo-dye. <i>Reactive and Functional Polymers</i> , 2011, 71, 373-379.	2.0	26
15	Advances in understanding the photoresponsive behavior of azobenzenes substituted with strong electron withdrawing groups. <i>Optical Materials</i> , 2015, 48, 160-164.	1.7	26
16	Synthesis and characterization of side-chain oxazoline-methyl methacrylate copolymers bearing azo-dye. <i>Reactive and Functional Polymers</i> , 2010, 70, 827-835.	2.0	25
17	Self-Healing and Moldable Poly(2-isopropenyl-2-oxazoline) Supramolecular Hydrogels Based on a Transient Metal Coordination Network. <i>Macromolecules</i> , 2020, 53, 6566-6575.	2.2	25
18	Self-Healing Metallo-Supramolecular Hydrogel Based on Specific Ni <sup>2+</sup> Coordination Interactions of Poly(ethylene glycol) with Bistriazole Pyridine Ligands in the Main Chain. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900457.	2.0	25

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19	Synthesis of a new oxazoline macromonomer for dispersion polymerization. <i>Polymer Bulletin</i> , 2011, 66, 785-796.	1.7	21
20	Novel Aspects Regarding the Photochemistry of Azo-Derivatives Substituted with Strong Acceptor Groups. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10538-10549.	1.5	21
21	New insights into the self-assembling of some hydrophobically modified polyacrylates in aqueous solution. <i>Colloid and Polymer Science</i> , 2016, 294, 667-679.	1.0	21
22	Poly(2-cycloalkyl-2-oxazoline)s: high melting temperature polymers solely based on Debye and Keesom van der Waals interactions. <i>Polymer Chemistry</i> , 2016, 7, 1309-1322.	1.9	19
23	Photocontrol in Complex Polymeric Materials: Fact or Illusion?. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7945-7947.	7.2	18
24	Reduction-Responsive Molecularly Imprinted Poly(2-isopropenyl-2-oxazoline) for Controlled Release of Anticancer Agents. <i>Pharmaceutics</i> , 2020, 12, 506.	2.0	18
25	New Organic-Inorganic Hybrids with Azo-dye Content. <i>Designed Monomers and Polymers</i> , 2010, 13, 437-444.	0.7	17
26	Influence of the Aliphatic Side Chain on the Near Atmospheric Pressure Plasma Polymerization of 2-Alkyl-2-oxazolines for Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31356-31366.	4.0	17
27	Macropropagation Rate Coefficients and Branching Levels in Cationic Ring-Opening Polymerization of 2-Ethyl-2-oxazoline through Prediction of Size Exclusion Chromatography Data. <i>Macromolecules</i> , 2019, 52, 4067-4078.	2.2	17
28	Synthesis and Characterization of Novel Azobenzene Methacrylate Monomers. <i>Designed Monomers and Polymers</i> , 2009, 12, 553-563.	0.7	15
29	Synthesis and characterization of side-chain maleimide-styrene copolymers with new pendant azobenzene moieties. <i>Journal of Polymer Research</i> , 2011, 18, 1009-1016.	1.2	15
30	Synthesis and characterization of side-chain poly(methacrylate)s bearing new azo-moieties. <i>Polymer Bulletin</i> , 2010, 65, 905-916.	1.7	14
31	Metal Ion Selective Self-Assembly of a Ligand Functionalized Polymer into [1+1] Macrocyclic and Supramolecular Polymer Structures via Metal-Ligand Coordination. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900305.	2.0	14
32	Poly(2-oxazoline)s with pendant cubane groups. <i>Polymer Chemistry</i> , 2018, 9, 4840-4847.	1.9	12
33	Förster resonance energy transfer in fluorophore labeled poly(2-ethyl-2-oxazoline)s. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14125-14137.	2.7	11
34	Dual pH and thermoresponsive alternating polyampholytes in alcohol/water solvent mixtures. <i>Polymer Chemistry</i> , 2020, 11, 2205-2211.	1.9	11
35	Well-Defined Thermoresponsive Polymethacrylamide Copolymers with Ester Pendent Groups through One-Pot Statistical Postpolymerization Modification of Poly(2-isopropenyl-2-oxazoline) with Multiple Carboxylic Acids. <i>Journal of Polymer Science Part A</i> , 2019, 57, 360-366.	2.5	10
36	<i>In Vitro</i> Assessment of the Hydrolytic Stability of Poly(2-isopropenyl-2-oxazoline). <i>Biomacromolecules</i> , 2021, 22, 5020-5032.	2.6	9

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37	Defined High Molar Mass Poly(2-oxazoline)s. <i>Angewandte Chemie</i> , 2018, 130, 15626-15630.	1.6	6
38	Development and Characterization of Photoresponsive Polymers. , 2018, , 3-47.		4
39	Cation-π Interactions Accelerate the Living Cationic Ring-Opening Polymerization of Unsaturated 2-Alkyl-2-oxazolines. <i>Macromolecules</i> , 2020, 53, 3832-3846.	2.2	4
40	Strukturelle Diversifizierung von Pillar[n]-Makrocyclen. <i>Angewandte Chemie</i> , 2020, 132, 6374-6376.	1.6	4
41	Differences and similarities between mono-, bi- or tetrafunctional initiated cationic ring-opening polymerization of 2-oxazolines. <i>Polymer Chemistry</i> , 2022, 13, 861-876.	1.9	3
42	New side-chain azo-polymers for optical applications: synthesis and characterization. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
43	Photoresponsive polymers: Quo vadis. <i>European Polymer Journal</i> , 2017, 88, 257-258.	2.6	2
44	Smart polymeric gels. , 2018, , 179-230.		2
45	Factorial design optimization of polystyrene microspheres obtained by aqueous dispersion polymerization in the presence of poly(2-ethyl-2-oxazoline) reactive stabilizer. <i>Polymer International</i> , 2020, 69, 1122-1129.	1.6	2
46	[2 Å– 2] metallo-supramolecular grids based on 4,6-bis((1H-1,2,3-triazol-4-yl)-pyridin-2-yl)-2-phenylpyrimidine ligands: from discrete [2 Å– 2] grid structures to star-shaped supramolecular polymeric architectures. <i>Dalton Transactions</i> , 2021, 50, 8746-8751.	1.6	2
47	Steuerung komplexer Polymermaterialien mit Licht: Wirklichkeit oder Illusion?. <i>Angewandte Chemie</i> , 2018, 130, 8073-8075.	1.6	1
48	Poly(2-isopropenyl-2-oxazoline) as a Versatile Platform for Multi-Functional Materials. <i>Proceedings (mdpi)</i> , 2019, 29, .	0.2	1
49	Investigations of molecular nonlinear optical polarizabilities of azobenzenes substituted with strong acceptor groups. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
50	Photoresponsive behavior of azobenzene hybrid materials. , 2015, , .		0