

Qiang Ye

List of Publications by Year in descending order

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67
papers

2,376
citations

201658

27
h-index

214788

47
g-index

69
all docs

69
docs citations

69
times ranked

1827
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulating the Mechanochemistry of Peptide-Polymer Hybrids for Precision Tissue Repair. , 2022, , .		1
2	Peptide-Enabled Nanocomposites Offer Biomimetic Reconstruction of Silver Diamine Fluoride-Treated Dental Tissues. <i>Polymers</i> , 2022, 14, 1368.	4.5	6
3	Chemometrics-Assisted Raman Spectroscopy Characterization of Tunable Polymer-Peptide Hybrids for Dental Tissue Repair. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	9
4	Probing the mineralized tissue-adhesive interface for tensile nature and bond strength. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 120, 104563.	3.1	7
5	Antimicrobial Peptide-Polymer Conjugates for Dentistry. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1134-1144.	4.4	43
6	Multifunctional monomer acts as co-initiator and crosslinker to provide autonomous strengthening with enhanced hydrolytic stability in dental adhesives. <i>Dental Materials</i> , 2020, 36, 284-295.	3.5	15
7	Evolution of Network Structure and Mechanical Properties in Autonomous-Strengthening Dental Adhesive. <i>Polymers</i> , 2020, 12, 2076.	4.5	8
8	Hydrophilic dyes as photosensitizers for photopolymerization of dental adhesives. <i>Journal of Dentistry</i> , 2020, 99, 103405.	4.1	6
9	Experimental and Mechanistic Study of Stabilized Dry CO ₂ Foam Using Polyelectrolyte Complex Nanoparticles Compatible with Produced Water To Improve Hydraulic Fracturing Performance. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9431-9449.	3.7	29
10	Threats to adhesive/dentin interfacial integrity and next generation bio-enabled multifunctional adhesives. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2673-2683.	3.4	34
11	Peptide Mediated Antimicrobial Dental Adhesive System. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 557.	2.5	25
12	New silyl-functionalized BisGMA provides autonomous strengthening without leaching for dental adhesives. <i>Acta Biomaterialia</i> , 2019, 83, 130-139.	8.3	22
13	Fabrication of hybrid crosslinked network with buffering capabilities and autonomous strengthening characteristics for dental adhesives. <i>Acta Biomaterialia</i> , 2018, 67, 111-121.	8.3	12
14	Structure-property relationships for wet dentin adhesive polymers. <i>Biointerphases</i> , 2018, 13, 061004.	1.6	8
15	Modulating pH through lysine integrated dental adhesives. <i>Dental Materials</i> , 2018, 34, 1652-1660.	3.5	3
16	Biophysical characterization of functionalized titania nanoparticles and their application in dental adhesives. <i>Acta Biomaterialia</i> , 2017, 53, 585-597.	8.3	40
17	Engineered Peptide Repairs Defective Adhesive-Dentin Interface. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600487.	3.6	28
18	Probing the neutralization behavior of zwitterionic monomer-containing dental adhesive. <i>Dental Materials</i> , 2017, 33, 564-574.	3.5	6

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19	Computer-aided molecular design of water compatible visible light photosensitizers for dental adhesive. <i>Chemical Engineering Science</i> , 2017, 159, 131-139.	3.8	14
20	Impact of light intensity on the polymerization kinetics and network structure of model hydrophobic and hydrophilic methacrylate based dental adhesive resin. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1666-1678.	3.4	20
21	Effect of Partition of Photo-Initiator Components and Addition of Iodonium Salt on the Photopolymerization of Phase-Separated Dental Adhesive. <i>Jom</i> , 2016, 68, 1090-1099.	1.9	8
22	Self-strengthening hybrid dental adhesive via visible-light irradiation triple polymerization. <i>RSC Advances</i> , 2016, 6, 52434-52447.	3.6	20
23	Development of methacrylate/silorane hybrid monomer system: Relationship between photopolymerization behavior and dynamic mechanical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 841-852.	3.4	11
24	Tris(trimethylsilyl)silane as a co-initiator for dental adhesive: Photo-polymerization kinetics and dynamic mechanical property. <i>Dental Materials</i> , 2016, 32, 102-113.	3.5	23
25	Mimicking nature: Self-strengthening properties in a dental adhesive. <i>Acta Biomaterialia</i> , 2016, 35, 138-152.	8.3	17
26	Probing the dual function of a novel tertiary amine compound in dentin adhesive formulations. <i>Dental Materials</i> , 2016, 32, 519-528.	3.5	10
27	Longitudinal Effect of Surface Treatments Modified by NaOCl-Induced Deproteinization and Nd:YAG Laser on Dentin Permeability. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 68-75.	2.0	11
28	Visible-Light Initiated Free-Radical/Cationic Ring-Opening Hybrid Photopolymerization of Methacrylate/Epoxy: Polymerization Kinetics, Crosslinking Structure, and Dynamic Mechanical Properties. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 856-872.	2.2	33
29	Viscoelastic properties of collagen-adhesive composites under water-saturated and dry conditions. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 646-657.	4.0	21
30	Synthesis and Evaluation of a Novel Co-Initiator for Dentin Adhesives: Polymerization Kinetics and Leachables Study. <i>Jom</i> , 2015, 67, 796-803.	1.9	18
31	Compositional design and optimization of dentin adhesive with neutralization capability. <i>Journal of Dentistry</i> , 2015, 43, 1132-1139.	4.1	7
32	Effect of crosslinking density of polymers and chemical structure of amine-containing monomers on the neutralization capacity of dentin adhesives. <i>Dental Materials</i> , 2015, 31, 1245-1253.	3.5	11
33	The influence of water on visible-light initiated free-radical/cationic ring-opening hybrid polymerization of methacrylate/epoxy: polymerization kinetics, crosslinking structure and dynamic mechanical properties. <i>RSC Advances</i> , 2015, 5, 77791-77802.	3.6	7
34	Grafting MAP peptide to dental polymer inhibits MMP-8 activity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 324-331.	3.4	6
35	Computational Molecular Design of Water Compatible Dentin Adhesive System. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 2081-2086.	0.5	7
36	Characterization of Acid-Neutralizing Basic Monomers in Co-Solvent Systems by NMR. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 361-367.	3.4	9

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37	Hydroxyapatite-Based Colloidal Gels Facilitate the Proliferation and Migration of Chondrocytes and the Adhesion of Umbilical Cord Mesenchymal Stem Cells. <i>International Scholarly Research Notices</i> , 2014, 2014, 1-7.	0.9	1
38	Synthesis and evaluation of novel dental monomer with branched carboxyl acid group. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1473-1484.	3.4	31
39	Polymerization- and solvent-induced phase separation in hydrophilic-rich dentin adhesive mimic. <i>Acta Biomaterialia</i> , 2014, 10, 3038-3047.	8.3	35
40	Synthesis and evaluation of novel siloxane-methacrylate monomers used as dentin adhesives. <i>Dental Materials</i> , 2014, 30, 1073-1087.	3.5	18
41	Mechanical properties of methacrylate-based model dentin adhesives: Effect of loading rate and moisture exposure. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101, 1437-1443.	3.4	22
42	Multivariate Analysis of Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopic Data to Confirm Phase Partitioning in Methacrylate-Based Dentin Adhesive. <i>Applied Spectroscopy</i> , 2013, 67, 1473-1478.	2.2	11
43	Posterior composite restoration update: focus on factors influencing form and function. <i>Clinical, Cosmetic and Investigational Dentistry</i> , 2013, 5, 33.	1.6	53
44	Dentin/Adhesive Interface in Teeth. , 2013, , 133-151.		2
45	Determination of Neutralization Capacity and Stability of a Basic Methacrylate Monomer Using NMR. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012, 61, 144-153.	3.4	10
46	Quantitative analysis of aqueous phase composition of model dentin adhesives experiencing phase separation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1086-1092.	3.4	26
47	Diffusion coefficients of water and leachables in methacrylate-based crosslinked polymers using absorption experiments. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1157-1172.	3.6	56
48	Synthesis and evaluation of novel dental monomer with branched aromatic carboxylic acid group. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 569-576.	3.4	23
49	Durable Bonds at the Adhesive/Dentin Interface: An Impossible Mission or Simply a Moving Target?. <i>Ciência Odontológica Brasileira</i> , 2012, 15, 4-18.	0.0	54
50	Fatigue life prediction of dentin-adhesive interface using micromechanical stress analysis. <i>Dental Materials</i> , 2011, 27, e187-e195.	3.5	38
51	The influence of chemical structure on the properties in methacrylate-based dentin adhesives. <i>Dental Materials</i> , 2011, 27, 1086-1093.	3.5	108
52	Effect of photoinitiator system and water content on dynamic mechanical properties of a light-cured bisGMA/HEMA dental resin. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 1245-1251.	4.0	65
53	Adhesive/Dentin Interface: The Weak Link in the Composite Restoration. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1989-2003.	2.5	362
54	Viscoelastic and fatigue properties of model methacrylate-based dentin adhesives. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 95B, 283-290.	3.4	29

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55	Effect of photoinitiators on the in vitro performance of a dentin adhesive exposed to simulated oral environment. <i>Dental Materials</i> , 2009, 25, 452-458.	3.5	67
56	Water sorption and dynamic mechanical properties of dentin adhesives with a urethane-based multifunctional methacrylate monomer. <i>Dental Materials</i> , 2009, 25, 1569-1575.	3.5	70
57	Nanophase separation of polymers exposed to simulated bonding conditions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 88B, 339-348.	3.4	67
58	Enzymatic biodegradation of HEMA/bisGMA adhesives formulated with different water content. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 88B, 394-401.	3.4	57
59	Dynamic mechanical analysis and esterase degradation of dentin adhesives containing a branched methacrylate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 61-70.	3.4	57
60	Enzyme-catalyzed hydrolysis of dentin adhesives containing a new urethane-based trimethacrylate monomer. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 562-571.	3.4	35
61	Preparation and properties of novel dentin adhesives with esterase resistance. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3588-3597.	2.6	39
62	Effects of water content and initiator composition on photopolymerization of a model BisGMA/HEMA resin. <i>Dental Materials</i> , 2008, 24, 824-831.	3.5	89
63	Nanoscale patterning in crosslinked methacrylate copolymer networks: An atomic force microscopy study. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3843-3851.	2.6	23
64	Relationship of solvent to the photopolymerization process, properties, and structure in model dentin adhesives. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 342-350.	4.0	159
65	Characterization of photopolymerization of dentin adhesives as a function of light source and irradiance. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 80B, 440-446.	3.4	65
66	Effects of a solubility enhancer on penetration of hydrophobic component in model adhesives into wet demineralized dentin. <i>Dental Materials</i> , 2007, 23, 1473-1481.	3.5	47
67	Effect of coinitiator and water on the photoreactivity and photopolymerization of HEMA/camphorquinone-based reactant mixtures. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 721-728.	4.0	102