

Paola Taddei

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112
papers

3,290
citations

34
h-index

53
g-index

114
ext. papers

3,658
ext. citations

4.4
avg, IF

5.08
L-index

#	Paper	IF	Citations
112	Poly(lactic acid) fibre-reinforced polycaprolactone scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2008 , 29, 3662-3670	15.6	154
111	Apatite formation on bioactive calcium-silicate cements for dentistry affects surface topography and human marrow stromal cells proliferation. <i>Dental Materials</i> , 2010 , 26, 974-92	5.7	145
110	Tyrosinase-catalyzed modification of Bombyx mori silk fibroin: grafting of chitosan under heterogeneous reaction conditions. <i>Journal of Biotechnology</i> , 2006 , 125, 281-94	3.7	113
109	Enzymatic surface modification and functionalization of PET: a water contact angle, FTIR, and fluorescence spectroscopy study. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 845-56	4.9	102
108	Environmental scanning electron microscopy connected with energy dispersive x-ray analysis and Raman techniques to study ProRoot mineral trioxide aggregate and calcium silicate cements in wet conditions and in real time. <i>Journal of Endodontics</i> , 2010 , 36, 851-7	4.7	101
107	Synthesis of carbonated hydroxyapatites: efficiency of the substitution and critical evaluation of analytical methods. <i>Journal of Molecular Structure</i> , 2005 , 744-747, 221-228	3.4	99
106	Surface structure and properties of poly-(ethylene terephthalate) hydrolyzed by alkali and cutinase. <i>Polymer Degradation and Stability</i> , 2010 , 95, 1542-1550	4.7	98
105	Luminescence Properties of 1,8-Naphthalimide Derivatives in Solution, in Their Crystals, and in Co-crystals: Toward Room-Temperature Phosphorescence from Organic Materials. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18646-18658	3.8	95
104	Development of the foremost light-curable calcium-silicate MTA cement as root-end in oral surgery. Chemical-physical properties, bioactivity and biological behavior. <i>Dental Materials</i> , 2011 , 27, e134-57	5.7	95
103	Enzymatic grafting of chitosan onto Bombyx mori silk fibroin: kinetic and IR vibrational studies. <i>Journal of Biotechnology</i> , 2005 , 116, 21-33	3.7	95
102	Wear behaviour of cross-linked polyethylene assessed in vitro under severe conditions. <i>Biomaterials</i> , 2005 , 26, 3259-67	15.6	90
101	Biomimetic remineralization of human dentin using promising innovative calcium-silicate hybrid "smart" materials. <i>Dental Materials</i> , 2011 , 27, 1055-69	5.7	89
100	Kinetics of apatite formation on a calcium-silicate cement for root-end filling during ageing in physiological-like phosphate solutions. <i>Clinical Oral Investigations</i> , 2010 , 14, 659-68	4.2	73
99	Vibrational infrared conformational studies of model peptides representing the semicrystalline domains of Bombyx mori silk fibroin. <i>Biopolymers</i> , 2005 , 78, 249-58	2.2	69
98	Biointeractivity-related versus chemi/physisorption-related apatite precursor-forming ability of current root end filling materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 1107-23	3.5	66
97	Different titanium surface treatment influences human mandibular osteoblast response. <i>Journal of Periodontology</i> , 2004 , 75, 273-82	4.6	62
96	Possible implications of serine and tyrosine residues and intermolecular interactions on the appearance of silk I structure of Bombyx mori silk fibroin-derived synthetic peptides: high-resolution ¹³ C cross-polarization/magic-angle spinning NMR study. <i>Biomacromolecules</i> , 2005 , 6, 168-74	6.9	60

95	Tuning size scale and crystallinity of PCL electrospun fibres via solvent permittivity to address hMSC response. <i>Macromolecular Bioscience</i> , 2011 , 11, 1694-705	5.5	55
94	Binding of Co(II) and Cu(II) cations to chemically modified wool fibres: an IR investigation. <i>Journal of Molecular Structure</i> , 2003 , 650, 105-113	3.4	52
93	Reliability assessment in advanced nanocomposite materials for orthopaedic applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 303-14	4.1	50
92	Silk fibroin/gelatin blend films crosslinked with enzymes for biomedical applications. <i>Macromolecular Bioscience</i> , 2013 , 13, 1492-510	5.5	48
91	Ageing of calcium silicate cements for endodontic use in simulated body fluids: a micro-Raman study. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1858-1866	2.3	47
90	In vitro study of the proteolytic degradation of <i>Antheraea pernyi</i> silk fibroin. <i>Biomacromolecules</i> , 2006 , 7, 259-67	6.9	46
89	Properties of calcium silicate-monobasic calcium phosphate materials for endodontics containing tantalum pentoxide and zirconium oxide. <i>Clinical Oral Investigations</i> , 2019 , 23, 445-457	4.2	45
88	The influence of hydroxyapatite particles on in vitro degradation behavior of poly epsilon-caprolactone-based composite scaffolds. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3655-68	3.9	41
87	Alpha-TCP improves the apatite-formation ability of calcium-silicate hydraulic cement soaked in phosphate solutions. <i>Materials Science and Engineering C</i> , 2011 , 31, 1412-1422	8.3	40
86	Vibrational spectroscopy of ultra-high molecular weight polyethylene hip prostheses: influence of the sterilisation method on crystallinity and surface oxidation. <i>Journal of Molecular Structure</i> , 2002 , 613, 121-129	3.4	39
85	Vibrational spectroscopy of polymeric biomaterials. <i>Journal of Raman Spectroscopy</i> , 2001 , 32, 619-629	2.3	39
84	Raman and solid state ¹³ C-NMR investigation of the structure of the 1 : 1 amorphous piroxicam : beta-cyclodextrin inclusion compound. <i>Biospectroscopy</i> , 1999 , 5, 243-51		39
83	In vitro mineralization of bioresorbable poly(ε-caprolactone)/apatite composites for bone tissue engineering: a vibrational and thermal investigation. <i>Journal of Molecular Structure</i> , 2005 , 744-747, 135-143	3.4	38
82	Vibrational study on the bioactivity of Portland cement-based materials for endodontic use. <i>Journal of Molecular Structure</i> , 2009 , 924-926, 548-554	3.4	37
81	Poly(lactic acid)-based porous scaffolds doped with calcium silicate and dicalcium phosphate dihydrate designed for biomedical application. <i>Materials Science and Engineering C</i> , 2018 , 82, 163-181	8.3	36
80	Oxidation in ultrahigh molecular weight polyethylene and cross-linked polyethylene acetabular cups tested against roughened femoral heads in a hip joint simulator. <i>Biomacromolecules</i> , 2006 , 7, 1912-20	6.9	36
79	Raman study of poly(alanine-glycine)-based peptides containing tyrosine, valine, and serine as model for the semicrystalline domains of <i>Bombyx mori</i> silk fibroin. <i>Biopolymers</i> , 2004 , 75, 314-24	2.2	36
78	The biomaterials challenge: A comparison of polyethylene wear using a hip joint simulator. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 53, 40-48	4.1	34

77	Highly porous polycaprolactone scaffolds doped with calcium silicate and dicalcium phosphate dihydrate designed for bone regeneration. <i>Materials Science and Engineering C</i> , 2019 , 102, 341-361	8.3	34
76	Efficacy of three face masks in preventing inhalation of airborne contaminants in dental practice. <i>Journal of the American Dental Association</i> , 2005 , 136, 877-82	1.9	34
75	Structure modifications induced in silk fibroin by enzymatic treatments. A Raman study. <i>Journal of Molecular Structure</i> , 2005 , 744-747, 685-690	3.4	33
74	Raman and pulse radiolysis studies of the antioxidant properties of quercetin: Cu(II) chelation and oxidizing radical scavenging. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 380-388	2.3	32
73	Does metal transfer affect the tribological behaviour of femoral heads? Roughness and phase transformation analyses on retrieved zirconia and BioloX \square Delta composites. <i>Composites Part B: Engineering</i> , 2016 , 92, 290-298	10	31
72	IR study on the binding mode of metal cations to chemically modified Bombyx mori and Tussah silk fibres. <i>Journal of Molecular Structure</i> , 2003 , 651-653, 433-441	3.4	30
71	Polymorphism in crystalline cinchomeric acid. <i>Chemistry - A European Journal</i> , 2007 , 13, 1222-30	4.8	29
70	Vibrational investigation of calcium-silicate cements for endodontics in simulated body fluids. <i>Journal of Molecular Structure</i> , 2011 , 993, 367-375	3.4	28
69	Phase transformation in explanted highly crystalline UHMWPE acetabular cups and debris after in vivo wear. <i>Journal of Molecular Structure</i> , 2006 , 785, 98-105	3.4	28
68	Influence of environment on piroxicam polymorphism: vibrational spectroscopic study. <i>Biopolymers</i> , 2001 , 62, 68-78	2.2	28
67	Raman, IR and thermal study of a new highly biocompatible phosphorylcholine-based contact lens. <i>Journal of Molecular Structure</i> , 2005 , 744-747, 507-514	3.4	25
66	The effects of irradiation and EtO-treatment on ultrahigh molecular weight polyethylene acetabular cups following accelerated aging: Degradation of mechanical properties and morphology changes during hip simulator tests. <i>Journal of Molecular Structure</i> , 2008 , 875, 254-263	3.4	23
65	Raman characterization of the interactions between gliadins and anthocyanins. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1435-1439	2.3	22
64	Effects of sterilisation by high-energy radiation on biomedical poly-(epsilon-caprolactone)/hydroxyapatite composites. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 1789-97	4.5	21
63	Ultralong Organic Phosphorescence in the Solid State: The Case of Triphenylene Cocrystals with Halo- and Dihalo-penta/tetrafluorobenzene. <i>Crystal Growth and Design</i> , 2019 , 19, 336-346	3.5	21
62	Comparison between the in vitro surface transformations of AP40 and RKKP bioactive glasses. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 119-28	4.5	20
61	Effect of the fluoride content on the bioactivity of calcium silicate-based endodontic cements. <i>Ceramics International</i> , 2014 , 40, 4095-4107	5.1	19
60	Study on the interaction between gliadins and a coumarin as molecular model system of the gliadins-anthocyanidins complexes. <i>Food Chemistry</i> , 2013 , 141, 3586-97	8.5	18

59	Raman characterisation of conventional and cross-linked polyethylene in acetabular cups run on a hip joint simulator. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1344-1352	2.3	18
58	Does knee implant size affect wear variability?. <i>Tribology International</i> , 2013 , 66, 174-181	4.9	16
57	Spectroscopic evidence of the marine origin of mucilages in the Northern Adriatic Sea. <i>Science of the Total Environment</i> , 2005 , 353, 247-57	10.2	16
56	Biomimetic calcium-silicate cements aged in simulated body solutions. Osteoblast response and analyses of apatite coating. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2009 , 7, 160-70		16
55	In vitro effects on mobile polyethylene insert under highly demanding daily activities: stair climbing. <i>International Orthopaedics</i> , 2015 , 39, 1433-40	3.8	15
54	Raman and fluorescence investigations on retrieved Biolox Δ femoral heads. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 1868-1876	2.3	15
53	Vibrational ¹³ C-cross-polarization/magic angle spinning NMR spectroscopic and thermal characterization of poly(alanine-glycine) as model for silk I Bombyx mori fibroin. <i>Biopolymers</i> , 2003 , 72, 329-38	2.2	15
52	Toward the interpretation of the combined effect of size and body weight on the tribological performance of total knee prostheses. <i>International Orthopaedics</i> , 2014 , 38, 1183-90	3.8	14
51	Photo- vs Mechano-Induced Polymorphism and Single Crystal to Single Crystal [2 + 2] Photoreactivity in a Bromide Salt of 4-Amino-Cinnamic Acid. <i>Crystal Growth and Design</i> , 2017 , 17, 4491-4495	2.5	14
50	Intermolecular interactions between B. mori silk fibroin and poly(l-lactic acid) in electrospun composite nanofibrous scaffolds. <i>Materials Science and Engineering C</i> , 2017 , 70, 777-787	8.3	14
49	Severe damage of alumina-on-alumina hip implants: Wear assessments at a microscopic level. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3647-3657	6	14
48	The use of Raman spectroscopy in the analysis of UHMWPE uni-condylar bearing systems after run on a force and displacement control knee simulators. <i>Wear</i> , 2013 , 297, 781-790	3.5	13
47	Wear performance of neat and vitamin E blended highly cross-linked PE under severe conditions: The combined effect of accelerated ageing and third body particles during wear test. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 64, 240-52	4.1	13
46	Stability toward alkaline hydrolysis of B. mori silk fibroin grafted with methacrylamide. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 731-739	2.3	12
45	Demineralization, Collagen Modification and Remineralization Degree of Human Dentin after EDTA and Citric Acid Treatments. <i>Materials</i> , 2018 , 12,	3.5	12
44	Intriguing Case of Pseudo-Isomorphism between Chiral and Racemic Crystals of rac- and (S)/(R)2-(1,8-Naphthalimido)-2-quinuclidin-3-yl, and Their Reactivity Toward I ₂ and IBr. <i>Crystal Growth and Design</i> , 2014 , 14, 821-829	3.5	11
43	The effects of contact area and applied load on the morphology of in vitro worn ultra-high molecular weight knee prostheses: a micro-Raman and gravimetric study. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 781-787	2.3	11
42	Interactions between oligopeptides and oxidised titanium surfaces detected by vibrational spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 276-285	2.3	11

41	Vibrational study on the cobalt binding mode of Carnosine. <i>Journal of Molecular Structure</i> , 2002 , 641, 61-70	3.4	11
40	Does cyclic stress and accelerated ageing influence the wear behavior of highly crosslinked polyethylene?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 59, 418-429	4.1	10
39	Transfer of metallic debris after in vitro ceramic-on-metal simulation: Wear and degradation in Biolox Δ Delta composite femoral heads. <i>Composites Part B: Engineering</i> , 2017 , 115, 477-487	10	10
38	In vivo bioactivity of titanium and fluorinated apatite coatings for orthopaedic implants: a vibrational study. <i>Journal of Molecular Structure</i> , 2003 , 651-653, 427-431	3.4	10
37	Environmentally Friendly Sunscreens: Mechanochemical Synthesis and Characterization of ECD Inclusion Complexes of Avobenzone and Octinoxate with Improved Photostability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13215-13225	8.3	10
36	A poly(2-hydroxyethyl methacrylate)-based resin improves the dentin remineralizing ability of calcium silicates. <i>Materials Science and Engineering C</i> , 2017 , 77, 755-764	8.3	9
35	Enamel structural changes induced by hydrochloric and phosphoric acid treatment. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2014 , 12, 240-7	1.8	9
34	Spectroscopic study on the enzymatic degradation of a biodegradable composite periodontal membrane. <i>Biopolymers</i> , 2004 , 74, 146-50	2.2	9
33	Vibrational study of polymorphism of tetralin derivative for treatment of cardiovascular diseases. <i>Biopolymers</i> , 2002 , 67, 289-93	2.2	9
32	Silk fibres grafted with 2-hydroxyethyl methacrylate (HEMA) and 4-hydroxybutyl acrylate (HBA) for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 537-548	7.9	8
31	Folic Acid in the Solid State: A Synergistic Computational, Spectroscopic, and Structural Approach. <i>Crystal Growth and Design</i> , 2016 , 16, 2218-2224	3.5	8
30	Quantification of Wear Rates and Plastic Deformation on Mobile Unicompartamental UHMWPE Tibial Knee Inserts. <i>Tribology Letters</i> , 2013 , 52, 57-65	2.8	8
29	Affinity of protein fibres towards sulfation. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 190-197	2.3	7
28	Combined effect of the body mass index and implant size on the wear of retrieved total knee prostheses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 38, 69-77	4.1	6
27	A spectroscopic investigation of captopril and the Cu(II)-captopril system. <i>Journal of Molecular Structure</i> , 2001 , 565-566, 347-352	3.4	6
26	Activating [4 + 4] photoreactivity in the solid-state via complexation: from 9-(methylaminomethyl)anthracene to its silver(I) complexes. <i>Dalton Transactions</i> , 2018 , 47, 5725-5733	4.3	5
25	Structural study on methacrylamide-grafted Tussah silk fibroin fibres. <i>International Journal of Biological Macromolecules</i> , 2016 , 88, 196-205	7.9	5
24	Comparative micro-Raman study on standard, cross-linked and vitamin E-blended polyethylene acetabular cups after long-term in vitro testing and ageing. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1065-1074	2.3	5

23	Vibrational study on the interactions between yak keratin fibres and glyoxylic acid. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 100-108	2.3	5
22	Ceramics for Hip Joint Replacement 2018 , 167-181		5
21	PLGA Membranes Functionalized with Gelatin through Biomimetic Mussel-Inspired Strategy. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
20	Influence of grafting with acrylate compounds on the conformational rearrangements of silk fibroin upon electrospinning and treatment with aqueous methanol. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1367-1374	2.3	5
19	An in vitro study on dentin demineralization and remineralization: Collagen rearrangements and influence on the enucleated phase. <i>Journal of Inorganic Biochemistry</i> , 2019 , 193, 84-93	4.2	5
18	May the surface roughness of the retrieved femoral head influence the wear behavior of the polyethylene liner?. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1374-85	3.5	4
17	Vibrational and thermal characterisation of a new chiral drug under investigation for the therapy of congestive heart failure. <i>Journal of Molecular Structure</i> , 2002 , 642, 63-70	3.4	3
16	Wear Behavior Characterization of Hydrogels Constructs for Cartilage Tissue Replacement. <i>Materials</i> , 2021 , 14,	3.5	3
15	Molecular Salts of l-Carnosine: Combining a Natural Antioxidant and Geroprotector with Generally Regarded as Safe (GRAS) Organic Acids. <i>Crystal Growth and Design</i> , 2017 , 17, 3379-3386	3.5	2
14	Raman and Photoemission Spectroscopic Analyses of Explanted Biolog Delta Femoral Heads Showing Metal Transfer. <i>Materials</i> , 2017 , 10,	3.5	2
13	Electrospun Silk Fibroin Scaffolds for Tissue Regeneration: Chemical, Structural, and Toxicological Implications of the Formic Acid-Silk Fibroin Interaction.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 833157	5.8	2
12	Structural investigation on damaged hair keratin treated with α -unsaturated Michael acceptors used as repairing agents. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 620-632	7.9	2
11	Micro-Nano Surface Characterization and Bioactivity of a Calcium Phosphate-Incorporated Titanium Implant Surface. <i>Journal of Functional Biomaterials</i> , 2021 , 12,	4.8	2
10	Spectroscopic and morphological data assessing the apatite-forming ability of calcium hydroxide-releasing materials for pulp capping. <i>Data in Brief</i> , 2019 , 23, 103719	1.2	1
9	Reply to a comment by M. Mecozzi on Spectroscopic evidence of the marine origin of mucilages in the Northern Adriatic Sea <i>Science of the Total Environment</i> , 2007 , 381, 328-330	10.2	1
8	Does the addition of vitamin E to conventional UHMWPE improve the wear performance of hip acetabular cups? Micro-Raman characterization of differently processed polyethylene acetabular cups worn on a hip joint simulator. <i>Brazilian Journal of Medical and Biological Research</i> , 2020 , 53, e9930	2.8	1
7	Raman and IR spectra of $\text{Ca}_{x+1.5}(6-x)(\text{HPO}_4)_x(\text{PO}_4)_{6-x}$ calcium phosphates with different $\text{PO}_4^{3-}/\text{HPO}_4^{2-}$ molar ratios 1999 , 603-604		1
6	Polyethylene Based Polymer for Joint Replacement 2018 , 149-165		1

5	Embroidering Ionic Cocrystals with Polyiodide Threads: The Peculiar Outcome of the Mechanochemical Reaction between Alkali Iodides and Cyanuric Acid. <i>Crystal Growth and Design</i> , 2022 , 22, 2759-2767	3.5	1
4	Green Hydrogels Composed of Sodium Mannuronate/Guluronate, Gelatin and Biointeractive Calcium Silicates/Dicalcium Phosphate Dihydrate Designed for Oral Bone Defects Regeneration.. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
3	Vibrational Raman and IR data on brown hair subjected to bleaching. <i>Data in Brief</i> , 2021 , 38, 107439	1.2	0
2	Macromol. Biosci. 12/2011. <i>Macromolecular Bioscience</i> , 2011 , 11, 1693-1693	5.5	
1	Comparative Raman study on the molecular structure and IN VIVO wear of poly(methyl methacrylate)-based devices used as temporary knee prostheses: Effect of the antibiotic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 116, 104328	4.1	