Paola Taddei

List of Publications by Year in Descending Order

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	Electrospun Silk Fibroin Scaffolds for Tissue Regeneration: Chemical, Structural, and Toxicological Implications of the Formic Acid-Silk Fibroin Interaction.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 833157	5.8	2
111	Embroidering Ionic Cocrystals with Polyiodide Threads: The Peculiar Outcome of the Mechanochemical Reaction between Alkali Iodides and Cyanuric Acid. *Crystal Growth and Design*, **2022**, 22, 2759-2767	3.5	1
110	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. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 116, 104328	4.1	
109	Structural investigation on damaged hair keratin treated with α,β-unsaturated Michael acceptors used as repairing agents. *International Journal of Biological Macromolecules*, **2021**, 167, 620-632	7.9	2
108	Wear Behavior Characterization of Hydrogels Constructs for Cartilage Tissue Replacement. *Materials*, **2021**, 14,	3.5	3
107	Micro-Nano Surface Characterization and Bioactivity of a Calcium Phosphate-Incorporated Titanium Implant Surface. *Journal of Functional Biomaterials*, **2021**, 12,	4.8	2
106	Vibrational Raman and IR data on brown hair subjected to bleaching. *Data in Brief*, **2021**, 38, 107439	1.2	0
105	Green Hydrogels Composed of Sodium Mannuronate/Guluronate, Gelatin and Biointeractive Calcium Silicates/Dicalcium Phosphate Dihydrate Designed for Oral Bone Defects Regeneration.. *Nanomaterials*, **2021**, 11,	5.4	1
104	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. *Brazilian Journal of Medical and Biological Research*, **2020**, 53, e9930	2.8	1
103	PLGA Membranes Functionalized with Gelatin through Biomimetic Mussel-Inspired Strategy. *Nanomaterials*, **2020**, 10,	5.4	5
102	Environmentally Friendly Sunscreens: Mechanochemical Synthesis and Characterization of β-CD Inclusion Complexes of Avobenzone and Octinoxate with Improved Photostability. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13215-13225	8.3	10
101	Spectroscopic and morphological data assessing the apatite-forming ability of calcium hydroxide-releasing materials for pulp capping. *Data in Brief*, **2019**, 23, 103719	1.2	1
100	Highly porous polycaprolactone scaffolds doped with calcium silicate and dicalcium phosphate dihydrate designed for bone regeneration. *Materials Science and Engineering C*, **2019**, 102, 341-361	8.3	34
99	Properties of calcium silicate-monobasic calcium phosphate materials for endodontics containing tantalum pentoxide and zirconium oxide. *Clinical Oral Investigations*, **2019**, 23, 445-457	4.2	45
98	Ultralong Organic Phosphorescence in the Solid State: The Case of Triphenylene Cocrystals with Halo- and Dihalo-penta/tetrafluorobenzene. *Crystal Growth and Design*, **2019**, 19, 336-346	3.5	21
97	An in vitro study on dentin demineralization and remineralization: Collagen rearrangements and influence on the enucleated phase. *Journal of Inorganic Biochemistry*, **2019**, 193, 84-93	4.2	5
96	Activating [4 + 4] photoreactivity in the solid-state via complexation: from 9-(methylaminomethyl)anthracene to its silver(i) complexes. *Dalton Transactions*, **2018**, 47, 5725-5733	4.3	5

95	Silk fibres grafted with 2-hydroxyethyl methacrylate (HEMA) and 4-hydroxybutyl acrylate (HBA) for biomedical applications. *International Journal of Biological Macromolecules*, **2018**, 107, 537-548	7.9	8
94	Polylactic acid-based porous scaffolds doped with calcium silicate and dicalcium phosphate dihydrate designed for biomedical application. *Materials Science and Engineering C*, **2018**, 82, 163-181	8.3	36
93	Ceramics for Hip Joint Replacement **2018**, 167-181		5
92	Demineralization, Collagen Modification and Remineralization Degree of Human Dentin after EDTA and Citric Acid Treatments. *Materials*, **2018**, 12,	3.5	12
91	Polyethylene Based Polymer for Joint Replacement **2018**, 149-165		1
90	Molecular Salts of l-Carnosine: Combining a Natural Antioxidant and Geroprotector with Generally Regarded as Safe (GRAS) Organic Acids. *Crystal Growth and Design*, **2017**, 17, 3379-3386	3.5	2
89	A poly(2-hydroxyethyl methacrylate)-based resin improves the dentin remineralizing ability of calcium silicates. *Materials Science and Engineering C*, **2017**, 77, 755-764	8.3	9
88	Raman and Photoemission Spectroscopic Analyses of Explanted Biolox Delta Femoral Heads Showing Metal Transfer. *Materials*, **2017**, 10,	3.5	2
87	Photo- vs Mechano-Induced Polymorphism and Single Crystal to Single Crystal [2 + 2] Photoreactivity in a Bromide Salt of 4-Amino-Cinnamic Acid. *Crystal Growth and Design*, **2017**, 17, 4491-4495	3.5	14
86	Comparative micro-Raman study on standard, cross-linked and vitamin E-blended polyethylene acetabular cups after long-term in vitro testing and ageing. *Journal of Raman Spectroscopy*, **2017**, 48, 1065-1074	2.3	5
85	Intermolecular interactions between B. mori silk fibroin and poly(l-lactic acid) in electrospun composite nanofibrous scaffolds. *Materials Science and Engineering C*, **2017**, 70, 777-787	8.3	14
84	Transfer of metallic debris after in vitro ceramic-on-metal simulation: Wear and degradation in Biolox Delta composite femoral heads. *Composites Part B: Engineering*, **2017**, 115, 477-487	10	10
83	The biomaterials challenge: A comparison of polyethylene wear using a hip joint simulator. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 53, 40-48	4.1	34
82	Structural study on methacrylamide-grafted Tussah silk fibroin fibres. *International Journal of Biological Macromolecules*, **2016**, 88, 196-205	7.9	5
81	Stability toward alkaline hydrolysis of B. mori silk fibroin grafted with methacrylamide. *Journal of Raman Spectroscopy*, **2016**, 47, 731-739	2.3	12
80	Does cyclic stress and accelerated ageing influence the wear behavior of highly crosslinked polyethylene?. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 59, 418-429	4.1	10
79	Folic Acid in the Solid State: A Synergistic Computational, Spectroscopic, and Structural Approach. *Crystal Growth and Design*, **2016**, 16, 2218-2224	3.5	8
78	May the surface roughness of the retrieved femoral head influence the wear behavior of the polyethylene liner?. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 1374-85	3.5	4

77	Does metal transfer affect the tribological behaviour of femoral heads? Roughness and phase transformation analyses on retrieved zirconia and Biolox Delta composites. *Composites Part B: Engineering*, **2016**, 92, 290-298	10	31
76	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. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 64, 240-52	4.1	13
75	Influence of grafting with acrylate compounds on the conformational rearrangements of silk fibroin upon electrospinning and treatment with aqueous methanol. *Journal of Raman Spectroscopy* , **2016**, 47, 1367-1374	2.3	5
74	In vitro effects on mobile polyethylene insert under highly demanding daily activities: stair climbing. *International Orthopaedics*, **2015**, 39, 1433-40	3.8	15
73	Vibrational study on the interactions between yak keratin fibres and glyoxylic acid. *Journal of Raman Spectroscopy*, **2015**, 46, 100-108	2.3	5
72	Toward the interpretation of the combined effect of size and body weight on the tribological performance of total knee prostheses. *International Orthopaedics*, **2014**, 38, 1183-90	3.8	14
71	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 I2 and IBr. *Crystal Growth and Design*, **2014**, 14, 821-829	3.5	11
70	Luminescence Properties of 1,8-Naphthalimide Derivatives in Solution, in Their Crystals, and in Co-crystals: Toward Room-Temperature Phosphorescence from Organic Materials. *Journal of Physical Chemistry C*, **2014**, 118, 18646-18658	3.8	95
69	Effect of the fluoride content on the bioactivity of calcium silicate-based endodontic cements. *Ceramics International*, **2014**, 40, 4095-4107	5.1	19
68	Combined effect of the body mass index and implant size on the wear of retrieved total knee prostheses. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 38, 69-77	4.1	6
67	Enamel structural changes induced by hydrochloric and phosphoric acid treatment. *Journal of Applied Biomaterials and Functional Materials*, **2014**, 12, 240-7	1.8	9
66	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. *Journal of Raman Spectroscopy*, **2014**, 45, 781-787	2.3	11
65	Quantification of Wear Rates and Plastic Deformation on Mobile Unicompartmental UHMWPE Tibial Knee Inserts. *Tribology Letters*, **2013**, 52, 57-65	2.8	8
64	Biointeractivity-related versus chemi/physisorption-related apatite precursor-forming ability of current root end filling materials. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 1107-23	3.5	66
63	Raman characterization of the interactions between gliadins and anthocyanins. *Journal of Raman Spectroscopy*, **2013**, 44, 1435-1439	2.3	22
62	Study on the interaction between gliadins and a coumarin as molecular model system of the gliadins-anthocyanidins complexes. *Food Chemistry*, **2013**, 141, 3586-97	8.5	18
61	Does knee implant size affect wear variability?. *Tribology International*, **2013**, 66, 174-181	4.9	16
60	The use of Raman spectroscopy in the analysis of UHMWPE uni-condylar bearing systems after run on a force and displacement control knee simulators. *Wear*, **2013**, 297, 781-790	3.5	13

59	Affinity of protein fibres towards sulfation. *Journal of Raman Spectroscopy*, **2013**, 44, 190-197	2.3	7
58	Silk fibroin/gelatin blend films crosslinked with enzymes for biomedical applications. *Macromolecular Bioscience*, **2013**, 13, 1492-510	5.5	48
57	Severe damage of alumina-on-alumina hip implants: Wear assessments at a microscopic level. *Journal of the European Ceramic Society*, **2012**, 32, 3647-3657	6	14
56	Raman and fluorescence investigations on retrieved Biolox delta femoral heads. *Journal of Raman Spectroscopy*, **2012**, 43, 1868-1876	2.3	15
55	Alpha-TCP improves the apatite-formation ability of calcium-silicate hydraulic cement soaked in phosphate solutions. *Materials Science and Engineering C*, **2011**, 31, 1412-1422	8.3	40
54	Development of the foremost light-curable calcium-silicate MTA cement as root-end in oral surgery. Chemical-physical properties, bioactivity and biological behavior. *Dental Materials*, **2011**, 27, e134-57	5.7	95
53	Biomimetic remineralization of human dentin using promising innovative calcium-silicate hybrid "smart" materials. *Dental Materials*, **2011**, 27, 1055-69	5.7	89
52	Vibrational investigation of calcium-silicate cements for endodontics in simulated body fluids. *Journal of Molecular Structure*, **2011**, 993, 367-375	3.4	28
51	Tuning size scale and crystallinity of PCL electrospun fibres via solvent permittivity to address hMSC response. *Macromolecular Bioscience*, **2011**, 11, 1694-705	5.5	55
50	Macromol. Biosci. 12/2011. *Macromolecular Bioscience*, **2011**, 11, 1693-1693	5.5	
49	Interactions between oligopeptides and oxidised titanium surfaces detected by vibrational spectroscopy. *Journal of Raman Spectroscopy*, **2011**, 42, 276-285	2.3	11
48	Raman characterisation of conventional and cross-linked polyethylene in acetabular cups run on a hip joint simulator. *Journal of Raman Spectroscopy*, **2011**, 42, 1344-1352	2.3	18
47	Reliability assessment in advanced nanocomposite materials for orthopaedic applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2011**, 4, 303-14	4.1	50
46	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. *Journal of Endodontics*, **2010**, 36, 851-7	4.7	101
45	Kinetics of apatite formation on a calcium-silicate cement for root-end filling during ageing in physiological-like phosphate solutions. *Clinical Oral Investigations*, **2010**, 14, 659-68	4.2	73
44	Effects of sterilisation by high-energy radiation on biomedical poly-(epsilon-caprolactone)/hydroxyapatite composites. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 1789-97	4.5	21
43	Apatite formation on bioactive calcium-silicate cements for dentistry affects surface topography and human marrow stromal cells proliferation. *Dental Materials*, **2010**, 26, 974-92	5.7	145
42	Surface structure and properties of poly-(ethylene terephthalate) hydrolyzed by alkali and cutinase. *Polymer Degradation and Stability*, **2010**, 95, 1542-1550	4.7	98

41	The influence of hydroxyapatite particles on in vitro degradation behavior of poly epsilon-caprolactone-based composite scaffolds. *Tissue Engineering - Part A*, **2009**, 15, 3655-68	3.9	41
40	Ageing of calcium silicate cements for endodontic use in simulated body fluids: a micro-Raman study. *Journal of Raman Spectroscopy*, **2009**, 40, 1858-1866	2.3	47
39	Enzymatic surface modification and functionalization of PET: a water contact angle, FTIR, and fluorescence spectroscopy study. *Biotechnology and Bioengineering*, **2009**, 103, 845-56	4.9	102
38	Vibrational study on the bioactivity of Portland cement-based materials for endodontic use. *Journal of Molecular Structure*, **2009**, 924-926, 548-554	3.4	37
37	Biomimetic calcium-silicate cements aged in simulated body solutions. Osteoblast response and analyses of apatite coating. *Journal of Applied Biomaterials and Biomechanics*, **2009**, 7, 160-70		16
36	Polylactic acid fibre-reinforced polycaprolactone scaffolds for bone tissue engineering. *Biomaterials*, **2008**, 29, 3662-3670	15.6	154
35	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. *Journal of Molecular Structure*, **2008**, 875, 254-263	3.4	23
34	Polymorphism in crystalline cinchomeronic acid. *Chemistry - A European Journal*, **2007**, 13, 1222-30	4.8	29
33	Reply to a comment by M. Mecozzi on Spectroscopic evidence of the marine origin of mucilages in the Northern Adriatic Sea *Science of the Total Environment*, **2007**, 381, 328-330	10.2	1
32	Tyrosinase-catalyzed modification of Bombyx mori silk fibroin: grafting of chitosan under heterogeneous reaction conditions. *Journal of Biotechnology*, **2006**, 125, 281-94	3.7	113
31	In vitro study of the proteolytic degradation of Antheraea pernyi silk fibroin. *Biomacromolecules*, **2006**, 7, 259-67	6.9	46
30	Oxidation in ultrahigh molecular weight polyethylene and cross-linked polyethylene acetabular cups tested against roughened femoral heads in a hip joint simulator. *Biomacromolecules*, **2006**, 7, 1912-20	6.9	36
29	Phase transformation in explanted highly crystalline UHMWPE acetabular cups and debris after in vivo wear. *Journal of Molecular Structure*, **2006**, 785, 98-105	3.4	28
28	Enzymatic grafting of chitosan onto Bombyx mori silk fibroin: kinetic and IR vibrational studies. *Journal of Biotechnology*, **2005**, 116, 21-33	3.7	95
27	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 13C cross-polarization/magic-angle spinning NMR study. *Biomacromolecules*, **2005**, 6, 468-74	6.9	60
26	Structure modifications induced in silk fibroin by enzymatic treatments. A Raman study. *Journal of Molecular Structure*, **2005**, 744-747, 685-690	3.4	33
25	Raman, IR and thermal study of a new highly biocompatible phosphorylcholine-based contact lens. *Journal of Molecular Structure*, **2005**, 744-747, 507-514	3.4	25
24	In vitro mineralization of bioresorbable poly(caprolactone)/apatite composites for bone tissue engineering: a vibrational and thermal investigation. *Journal of Molecular Structure*, **2005**, 744-747, 135-143	3.4	38

23	Synthesis of carbonated hydroxyapatites: efficiency of the substitution and critical evaluation of analytical methods. *Journal of Molecular Structure*, **2005**, 744-747, 221-228	3.4	99
22	Wear behaviour of cross-linked polyethylene assessed in vitro under severe conditions. *Biomaterials*, **2005**, 26, 3259-67	15.6	90
21	Spectroscopic evidence of the marine origin of mucilages in the Northern Adriatic Sea. *Science of the Total Environment*, **2005**, 353, 247-57	10.2	16
20	Vibrational infrared conformational studies of model peptides representing the semicrystalline domains of Bombyx mori silk fibroin. *Biopolymers*, **2005**, 78, 249-58	2.2	69
19	Raman and pulse radiolysis studies of the antioxidant properties of quercetin: Cu(II) chelation and oxidizing radical scavenging. *Journal of Raman Spectroscopy*, **2005**, 36, 380-388	2.3	32
18	Comparison between the in vitro surface transformations of AP40 and RKKP bioactive glasses. *Journal of Materials Science: Materials in Medicine*, **2005**, 16, 119-28	4.5	20
17	Efficacy of three face masks in preventing inhalation of airborne contaminants in dental practice. *Journal of the American Dental Association*, **2005**, 136, 877-82	1.9	34
16	Spectroscopic study on the enzymatic degradation of a biodegradable composite periodontal membrane. *Biopolymers*, **2004**, 74, 146-50	2.2	9
15	Raman study of poly(alanine-glycine)-based peptides containing tyrosine, valine, and serine as model for the semicrystalline domains of Bombyx mori silk fibroin. *Biopolymers*, **2004**, 75, 314-24	2.2	36
14	Different titanium surface treatment influences human mandibular osteoblast response. *Journal of Periodontology*, **2004**, 75, 273-82	4.6	62
13	Vibrational 13C-cross-polarization/magic angle spinning NMR spectroscopic and thermal characterization of poly(alanine-glycine) as model for silk I Bombyx mori fibroin. *Biopolymers*, **2003**, 72, 329-38	2.2	15
12	In vivo bioactivity of titanium and fluorinated apatite coatings for orthopaedic implants: a vibrational study. *Journal of Molecular Structure*, **2003**, 651-653, 427-431	3.4	10
11	IR study on the binding mode of metal cations to chemically modified Bombyx mori and Tussah silk fibres. *Journal of Molecular Structure*, **2003**, 651-653, 433-441	3.4	30
10	Binding of Co(II) and Cu(II) cations to chemically modified wool fibres: an IR investigation. *Journal of Molecular Structure*, **2003**, 650, 105-113	3.4	52
9	Vibrational study of polymorphism of tetralin derivative for treatment of cardiovascular diseases. *Biopolymers*, **2002**, 67, 289-93	2.2	9
8	Vibrational spectroscopy of ultra-high molecular weight polyethylene hip prostheses: influence of the sterilisation method on crystallinity and surface oxidation. *Journal of Molecular Structure*, **2002**, 613, 121-129	3.4	39
7	Vibrational study on the cobalt binding mode of Carnosine. *Journal of Molecular Structure*, **2002**, 641, 61-70	3.4	11
6	Vibrational and thermal characterisation of a new chiral drug under investigation for the therapy of congestive heart failure. *Journal of Molecular Structure*, **2002**, 642, 63-70	3.4	3

5	A spectroscopic investigation of captopril and the Cu(II)□captopril system. *Journal of Molecular Structure*, **2001**, 565-566, 347-352	3.4	6
4	Vibrational spectroscopy of polymeric biomaterials. *Journal of Raman Spectroscopy*, **2001**, 32, 619-629	2.3	39
3	Influence of environment on piroxicam polymorphism: vibrational spectroscopic study. *Biopolymers*, **2001**, 62, 68-78	2.2	28
2	Raman and solid state 13C-NMR investigation of the structure of the 1 : 1 amorphous piroxicam : beta-cyclodextrin inclusion compound. *Biospectroscopy*, **1999**, 5, 243-51		39
1	Raman and IR spectra of Cax+1.5(6-x)(HPO4)x(PO4)6-x calcium phosphates with different PO43-/HPO42- molar ratios **1999**, 603-604		1