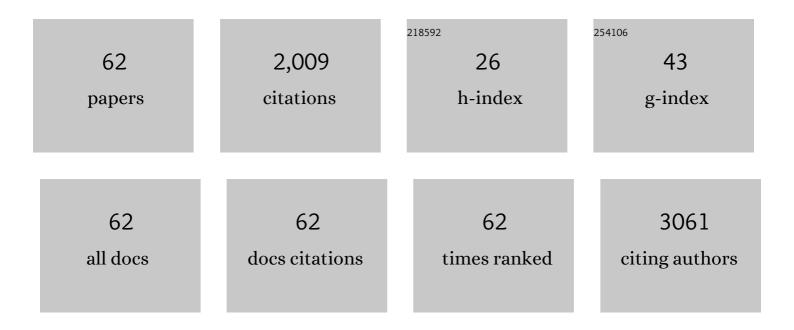
## Laura Treccani

List of Publications by Year in descending order

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Ι ΛΙΙΦΑ ΤΡΕΟΟΛΝΙ

#	Article	IF	CITATIONS
1	Functionalized ceramics for biomedical, biotechnological and environmental applications. Acta Biomaterialia, 2013, 9, 7115-7150.	4.1	226
2	The nacre protein perlucin nucleates growth of calcium carbonate crystals. Journal of Microscopy, 2003, 212, 280-291.	0.8	158
3	Perlwapin, an Abalone Nacre Protein with Three Four-Disulfide Core (Whey Acidic Protein) Domains, Inhibits the Growth of Calcium Carbonate Crystals. Biophysical Journal, 2006, 91, 2601-2608.	0.2	110
4	Protein adsorption on colloidal alumina particles functionalized with amino, carboxyl, sulfonate and phosphate groups. Acta Biomaterialia, 2012, 8, 1221-1229.	4.1	104
5	Perlinhibin, a Cysteine-, Histidine-, and Arginine-Rich Miniprotein from Abalone (Haliotis laevigata) Nacre, Inhibits In Vitro Calcium Carbonate Crystallization. Biophysical Journal, 2007, 93, 1246-1254.	0.2	69
6	Enhancing Cellular Uptake and Doxorubicin Delivery of Mesoporous Silica Nanoparticles via Surface Functionalization: Effects of Serum. ACS Applied Materials & Interfaces, 2015, 7, 26880-26891.	4.0	69
7	Mechanical evaluation of calcium-zirconium-silicate (baghdadite) obtained by a direct solid-state synthesis route. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 34, 294-301.	1.5	66
8	Highly Efficient Enzyme-Functionalized Porous Zirconia Microtubes for Bacteria Filtration. Environmental Science & Technology, 2012, 46, 8739-8747.	4.6	63
9	Development and characterisation of functionalised ceramic microtubes for bacteria filtration. Journal of Membrane Science, 2010, 365, 447-455.	4.1	60
10	Modulation of Silica Nanoparticle Uptake into Human Osteoblast Cells by Variation of the Ratio of Amino and Sulfonate Surface Groups: Effects of Serum. ACS Applied Materials & Interfaces, 2015, 7, 13821-13833.	4.0	60
11	Mixed zirconia calcium phosphate coatings for dental implants: Tailoring coating stability and bioactivity potential. Materials Science and Engineering C, 2015, 48, 337-346.	3.8	54
12	Orientation of human osteoblasts on hydroxyapatite-based microchannels. Acta Biomaterialia, 2012, 8, 394-403.	4.1	51
13	Co-delivery of cisplatin and doxorubicin from calcium phosphate beads/matrix scaffolds for osteosarcoma therapy. Materials Science and Engineering C, 2017, 77, 427-435.	3.8	42
14	Micromachining of ceramic surfaces: Hydroxyapatite and zirconia. Journal of Materials Processing Technology, 2012, 212, 614-624.	3.1	36
15	Controlling Mixed-Protein Adsorption Layers on Colloidal Alumina Particles by Tailoring Carboxyl and Hydroxyl Surface Group Densities. Langmuir, 2013, 29, 12502-12510.	1.6	34
16	Novel akermanite-based bioceramics from preceramic polymers and oxide fillers. Ceramics International, 2014, 40, 1029-1035.	2.3	34
17	A New Porous Hybrid Material Derived From Silica Fume and Alginate for Sustainable Pollutants Reduction. Frontiers in Chemistry, 2018, 6, 60.	1.8	34
18	Porous wollastonite–hydroxyapatite bioceramics from a preceramic polymer and micro- or nano-sized fillers. Journal of the European Ceramic Society, 2012, 32, 399-408.	2.8	33

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19	Effective Bacterial Inactivation and Removal of Copper by Porous Ceramics with High Surface Area. Environmental Science & Technology, 2013, 47, 1065-1072.	4.6	32
20	Controlling protein–particle adsorption by surface tailoring colloidal alumina particles with sulfonate groups. Acta Biomaterialia, 2013, 9, 5780-5787.	4.1	31
21	Abalone nacre insoluble matrix induces growth of flat and oriented aragonite crystals. Biochemical and Biophysical Research Communications, 2006, 344, 45-49.	1.0	29
22	Adsorption and Orientation of the Physiological Extracellular Peptide Glutathione Disulfide on Surface Functionalized Colloidal Alumina Particles. Journal of the American Chemical Society, 2013, 135, 6307-6316.	6.6	29
23	Comparison of micropatterning methods for ceramic surfaces. Journal of the European Ceramic Society, 2011, 31, 2809-2817.	2.8	28
24	The role of surface functionalization of colloidal alumina particles on their controlled interactions with viruses. Biomaterials, 2013, 34, 4203-4213.	5.7	28
25	Characterization of Wet Powder-Sprayed Zirconia/Calcium Phosphate Coating for Dental Implants. Clinical Implant Dentistry and Related Research, 2015, 17, 186-198.	1.6	28
26	Synthesis and mechanical evaluation of Sr-doped calcium-zirconium-silicate (baghdadite) and its impact on osteoblast cell proliferation and ALP activity. Biomedical Materials (Bristol), 2015, 10, 055013.	1.7	27
27	Utilizing the protein corona around silica nanoparticles for dual drug loading and release. Nanoscale, 2015, 7, 16251-16265.	2.8	27
28	A critical study: Assessment of the effect of silica particles from 15 to 500Ânm on bacterial viability. Environmental Pollution, 2013, 176, 292-299.	3.7	24
29	Osteoblast viability on hydroxyapatite with well-adjusted submicron and micron surface roughness as monitored by the proliferation reagent WST-1. Journal of Biomaterials Applications, 2013, 27, 791-800.	1.2	23
30	Magnesium-containing mixed coatings on zirconia for dental implants: mechanical characterization and inÂvitro behavior. Journal of Biomaterials Applications, 2015, 30, 104-118.	1.2	22
31	Gel Casting of Freeâ€Shapeable Ceramic Membranes with Adjustable Pore Size for Ultra―and Microfiltration. Journal of the American Ceramic Society, 2014, 97, 1393-1401.	1.9	21
32	Enzyme-assisted calcium phosphate biomineralization on an inert alumina surface. Acta Biomaterialia, 2015, 13, 335-343.	4.1	20
33	Antibacterial and Abrasionâ€Resistant Alumina Micropatterns. Advanced Engineering Materials, 2009, 11, B61.	1.6	19
34	A comparative study of three different synthesis routes for hydrophilic fluorophore-doped silica nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	19
35	Adsorption and Reduction of Glutathione Disulfide on α-Al2O3Nanoparticles: Experiments and Modeling. Langmuir, 2011, 27, 9449-9457.	1.6	18
36	Enhanced cell adhesion on bioinert ceramics mediated by the osteogenic cell membrane enzyme alkaline phosphatase. Materials Science and Engineering C, 2016, 69, 184-194.	3.8	18

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37	Multi-loaded ceramic beads/matrix scaffolds obtained by combining ionotropic and freeze gelation for sustained and tuneable vancomycin release. Materials Science and Engineering C, 2016, 67, 542-553.	3.8	18
38	Fluorescence labeling of colloidal core–shell particles with defined isoelectric points for in vitro studies. Acta Biomaterialia, 2012, 8, 720-727.	4.1	17
39	Versatile Crackâ€Free Ceramic Micropatterns Made by a Modified Molding Technique. Journal of the American Ceramic Society, 2010, 93, 2574-2578.	1.9	16
40	A novel one-pot process for near-net-shape fabrication of open-porous resorbable hydroxyapatite/protein composites and in vivo assessment. Materials Science and Engineering C, 2014, 42, 137-145.	3.8	16
41	Amino acid-catalyzed seed regrowth synthesis of photostable high fluorescent silica nanoparticles with tunable sizes for intracellular studies. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	16
42	Ceramic Microbeads as Adsorbents for Purification Technologies with High Specific Surface Area, Adjustable Pore Size, and Morphology Obtained by Ionotropic Gelation. Journal of the American Ceramic Society, 2012, 95, 907-914.	1.9	15
43	Micromolding of Calcium Carbonate Using a Bioâ€Inspired, Coacervationâ€Mediated Process. Journal of the American Ceramic Society, 2013, 96, 736-742.	1.9	15
44	Antibacterial active open-porous hydroxyapatite/lysozyme scaffolds suitable as bone graft and depot for localised drug delivery. Journal of Biomaterials Applications, 2017, 31, 1123-1134.	1.2	15
45	Dual fluorophore doped silica nanoparticles for cellular localization studies in multiple stained cells. Acta Biomaterialia, 2015, 14, 208-216.	4.1	14
46	Physisorption of enzymatically active chymotrypsin on titania colloidal particles. Journal of Colloid and Interface Science, 2015, 455, 236-244.	5.0	13
47	Physisorption of α-chymotrypsin on SiO2 and TiO2: A comparative study via experiments and molecular dynamics simulations. Biointerphases, 2016, 11, 011007.	0.6	12
48	Towards the synthesis of hydroxyapatite/protein scaffolds with controlled porosities: Bulk and interfacial shear rheology of a hydroxyapatite suspension with protein additives. Journal of Colloid and Interface Science, 2013, 407, 529-535.	5.0	10
49	Porous ceramic monoliths assembled from microbeads with high specific surface area for effective biocatalysis. RSC Advances, 2013, 3, 13381.	1.7	10
50	The role of ligands on protein retention in adsorption chromatography: A surface energetics approach. Journal of Separation Science, 2014, 37, 618-624.	1.3	10
51	Selective covalent immobilization of ferritin on alumina. Biointerphases, 2014, 9, 031018.	0.6	9
52	A mild one-pot process for synthesising hydroxyapatite/biomolecule bone scaffolds for sustained and controlled antibiotic release. Biomedical Materials (Bristol), 2015, 10, 015013.	1.7	9
53	Gel casting of large area micro- and sub-micropatterned thin ceramic tapes. Ceramics International, 2016, 42, 5036-5044.	2.3	9
54	Physicochemical properties and biodegradability of organically functionalized colloidal silica particles in aqueous environment. Chemosphere, 2014, 99, 96-101.	4.2	7

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55	Assessment of the Proteolytic Activity of α-Chymotrypsin Immobilized on Colloidal Particles by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry. Analytical Letters, 2015, 48, 424-441.	1.0	6
56	Rapid Sintering of Porous Monoliths Assembled from Microbeads with High Specific Surface Area and Multimodal Porosity. Advanced Engineering Materials, 2014, 16, 151-155.	1.6	5
57	Effect of silica on porosity, strength, and toughness of pressureless sintered calcium phosphate–zirconia bioceramics. Biomedical Materials (Bristol), 2015, 10, 045020.	1.7	5
58	Anchoring of Iron Oxyhydroxide Clusters at H and L Ferritin Subunits. ACS Biomaterials Science and Engineering, 2018, 4, 483-490.	2.6	5
59	Aluminium acetate as alternative cross-linker for temperature controlled gel-casting and joining of ceramics. Journal of the European Ceramic Society, 2016, 36, 1241-1251.	2.8	4
60	Interaction of the Physiological Tripeptide Clutathione with Colloidal Alumina Particles. Journal of Physical Chemistry C, 2012, 116, 23136-23142.	1.5	3
61	New Sustainable Hybrid Porous Materials for Air Particulate Matter Trapping. Materials Science Forum, 2018, 941, 2237-2242.	0.3	3
62	Mineralization of iron oxide by ferritin homopolymers immobilized on SiO <sub>2</sub> nanoparticles. Bioinspired, Biomimetic and Nanobiomaterials, 2019, 8, 16-27.	0.7	1