

Riccardo Ceccato

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 papers	1,675 citations	21 h-index	39 g-index
71 ext. papers	1,867 ext. citations	4.5 avg, IF	4.68 L-index

#	Paper	IF	Citations
68	Photocatalytic activity of Eu-doped ZnO prepared by supercritical antisolvent precipitation route: When defects become virtues. <i>Journal of Materials Science and Technology</i> , 2022 , 112, 49-58	9.1	1
67	Electron and Energy Transfer Mechanisms: The Double Nature of TiO Heterogeneous Photocatalysis. <i>Topics in Current Chemistry</i> , 2021 , 380, 2	7.2	1
66	Features and application of coupled cold plasma and photocatalysis processes for decontamination of water. <i>Chemosphere</i> , 2021 , 262, 128336	8.4	7
65	Effect of Hydrothermal Treatment and Doping on the Microstructural Features of Sol-Gel Derived BaTiO Nanoparticles. <i>Materials</i> , 2021 , 14,	3.5	1
64	Optical and radioluminescence properties of ZnO:Zn as a function of reduction degree and treatment temperature. <i>Journal of Applied Physics</i> , 2021 , 130, 085104	2.5	
63	Thin Films of Plasma-Polymerized n-Hexane and ZnO Nanoparticles Co-Deposited via Atmospheric Pressure Plasma Jet. <i>Coatings</i> , 2021 , 11, 167	2.9	2
62	Graphene-Based Reinforcing Filler for Double-Layer Acrylic Coatings. <i>Materials</i> , 2020 , 13,	3.5	4
61	Sewage Sludge Hydrochar: An Option for Removal of Methylene Blue from Wastewater. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3445	2.6	37
60	Photocatalytic Partial Oxidation of Tyrosol: Improving the Selectivity Towards Hydroxytyrosol by Surface Fluorination of TiO ₂ . <i>Topics in Catalysis</i> , 2020 , 63, 1350-1360	2.3	4
59	Aluminum doped zinc oxide coatings at low temperature by atmospheric pressure plasma jet. <i>Thin Solid Films</i> , 2020 , 708, 138118	2.2	5
58	Role of Hydroxyl, Superoxide, and Nitrate Radicals on the Fate of Bromide Ions in Photocatalytic TiO ₂ Suspensions. <i>ACS Catalysis</i> , 2020 , 10, 7922-7931	13.1	24
57	Enhanced Solar Light Photocatalytic Activity of Ag Doped TiO-AgPO Composites. <i>Nanomaterials</i> , 2020 , 10,	5.4	20
56	Molecular transport through 3-hydroxybutyrate co-3-hydroxyhexanoate biopolymer films with dispersed graphene oxide nanoparticles: Gas barrier, structural and mechanical properties. <i>Polymer Testing</i> , 2020 , 81, 106181	4.5	13
55	Effects of Graphene-Based Fillers on Cathodic Delamination and Abrasion Resistance of Cataphoretic Organic Coatings. <i>Coatings</i> , 2020 , 10, 602	2.9	8
54	Effect of functionalized graphene oxide concentration on the corrosion resistance properties provided by cataphoretic acrylic coatings. <i>Materials Chemistry and Physics</i> , 2020 , 239, 121984	4.4	19
53	Enhanced Sol-Gel Route to Obtain a Highly Transparent and Conductive Aluminum-Doped Zinc Oxide Thin Film. <i>Materials</i> , 2019 , 12,	3.5	17
52	Docosane-Organosilica Microcapsules for Structural Composites with Thermal Energy Storage/Release Capability. <i>Materials</i> , 2019 , 12,	3.5	36

51	Corrosion protection properties of functionalised grapheneacrylate coatings produced via cataphoretic deposition. <i>Progress in Organic Coatings</i> , 2019 , 136, 105261	4.8	10
50	Effect of the Organic Functional Group on the Grafting Ability of Trialkoxysilanes onto Graphene Oxide: A Combined NMR, XRD, and ESR Study. <i>Materials</i> , 2019 , 12,	3.5	10
49	Sol-Gel Synthesis of TiO ₂ Nanocrystalline Particles with Enhanced Surface Area through the Reverse Micelle Approach. <i>Advances in Materials Science and Engineering</i> , 2019 , 2019, 1-14	1.5	11
48	Versatile and Scalable Strategy To Grow Sol-Gel Derived 2H-MoS Thin Films with Superior Electronic Properties: A Memristive Case. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34392-34400	9.5	15
47	Filler-matrix interaction in sodium montmorillonite-organosilica nanocomposite coatings for corrosion protection. <i>Applied Clay Science</i> , 2017 , 150, 81-88	5.2	9
46	Synthesis and characterization of strontium-substituted hydroxyapatite nanoparticles for bone regeneration. <i>Materials Science and Engineering C</i> , 2017 , 71, 653-662	8.3	84
45	Tunable hydrogen generation from sodium borohydride with silicon carbonitride functionalized carbon nanostructure electrode. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5447-5454	6.7	1
44	Effects of Fumed Silica and Draw Ratio on Nanocomposite Polypropylene Fibers. <i>Polymers</i> , 2017 , 9,	4.5	12
43	Processing and characterization of diatom nanoparticles and microparticles as potential source of silicon for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2016 , 59, 471-479	8.3	32
42	SiOCN Functionalized Carbon Nanotube Gas Sensors for Elevated Temperature Applications. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1142-1149	3.8	10
41	Starch-grafted-polypropylene/kenaf fibres composites. Part 2: thermal stability and dynamic-mechanical response. <i>Journal of Reinforced Plastics and Composites</i> , 2015 , 34, 2045-2058	2.9	9
40	Adsorptive properties of solgel derived hybrid organic/inorganic coatings. <i>Materials Chemistry and Physics</i> , 2014 , 147, 954-962	4.4	10
39	Melt spinning and drawing of polyethylene nanocomposite fibers with organically modified hydrotalcite. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	6
38	Viscoelastic behaviour and fracture toughness of linear-low-density polyethylene reinforced with synthetic boehmite alumina nanoparticles. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 652-666	3.4	24
37	Influence of curing temperature on the evolution of magnesium oxychloride cement. <i>Journal of Materials Science</i> , 2011 , 46, 6726-6733	4.3	70
36	Ultrahigh figure-of-merit for hydrogen generation from sodium borohydride using ternary metal catalysts. <i>Journal of Power Sources</i> , 2011 , 196, 69-75	8.9	21
35	Production of biodiesel from <i>Jatropha curcas</i> L. oil catalyzed by SO ₄ ²⁻ /ZrO ₂ catalyst: effect of interaction between process variables. <i>Bioresource Technology</i> , 2011 , 102, 4285-9	11	51
34	Superefficient thin film multilayer catalyst for generating hydrogen from sodium borohydride. <i>Journal of Power Sources</i> , 2011 , 196, 741-746	8.9	14

33	Growth of nanotubes in sol-gel-derived V ₂ O ₅ powders and films prepared under acidic conditions. <i>Journal of Materials Research</i> , 2009 , 24, 475-481	2.5	9
32	Developing an Adaptive Management approach to prescribed burning: a long-term heathland conservation experiment in north-west Italy. <i>International Journal of Wildland Fire</i> , 2009 , 18, 727	3.2	32
31	Highly Active Photocatalytic TiO ₂ Powders Obtained by Thermohydrolysis of TiCl ₄ in Water. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15166-15174	3.8	151
30	Microstructural refinement using ball-milling and spark-plasma sintering of MgH ₂ based materials for hydrogen storage. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2009 , 33, 82-88	1.9	8
29	A powder metallurgy approach for the production of a MgH ₂ /Al composite material. <i>Journal of Alloys and Compounds</i> , 2009 , 478, 273-280	5.7	16
28	Photocatalytic activity of nanocrystalline TiO ₂ (brookite, rutile and brookite-based) powders prepared by thermohydrolysis of TiCl ₄ in aqueous chloride solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 317, 366-376	5.1	230
27	Deposition of Copper Phthalocyanine Films by Glow-Discharge-Induced Sublimation. <i>Chemistry of Materials</i> , 2005 , 17, 1895-1904	9.6	38
26	YSZ freestanding films from hybrid polymer/oxide composites by the sol-gel process: Influence of polymer features on ceramic microstructure. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 2647-2650	6	3
25	Deposition of copper phthalocyanine films by glow discharge-induced sublimation for gas sensing applications. <i>Surface and Coatings Technology</i> , 2005 , 200, 476-480	4.4	10
24	Structural and Microstructural Evolution During Pyrolysis of Hybrid Polydimethylsiloxane-Titania Nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 34, 53-62	2.3	37
23	Formation of copper nanocrystals in alkali-lime silica glass by means of different reducing agents. <i>Journal of Non-Crystalline Solids</i> , 2004 , 345-346, 671-675	3.9	16
22	Optical Study of The Matrix Effect on the ESIPT Mechanism of 3-HF Doped Sol-Gel Glass. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 931-935	2.3	18
21	Sol-Gel Synthesis of Vanadate-Based Thin Films as Counter Electrodes in Electrochromic Devices. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 1071-1074	2.3	12
20	Probing the chemical environment of 3-hydroxyflavone doped ormosils by a spectroscopic study of excited state intramolecular proton transfer. <i>Journal of Non-Crystalline Solids</i> , 2003 , 322, 1-6	3.9	12
19	Pyrolysis pathway of sol-gel derived organic/inorganic hybrid nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2003 , 322, 22-28	3.9	8
18	Spectroscopic characterization of the mixed films TiO ₂ -V ₂ O ₅ , used as counter electrodes in electrochromic devices and in liquid crystal cells. <i>Ionics</i> , 2002 , 8, 244-251	2.7	3
17	Hydroxylated Cyclophosphazene/Silica Hybrid Materials: Synthesis and Characterization. <i>Journal of Inorganic and Organometallic Polymers</i> , 2002 , 12, 59-78		4
16	Electrical and electro-optical investigations of liquid crystal cells containing TiO ₂ /V ₂ O ₅ thin films prepared by sol-gel synthesis. <i>Journal of Applied Physics</i> , 2002 , 92, 5340-5346	2.5	14

15	SOL-GEL Synthesis and Characterization of TiO ₂ and TiO ₂ -V ₂ O ₅ Films for Electrode in Asymmetric Liquid Crystal Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 372, 305-320	0.5	3
14	Low-wavenumber Raman scattering spectroscopy in studies of new gallium-doped silica glass-based transparent vitroceramic medium. <i>Journal of Raman Spectroscopy</i> , 2001 , 32, 643-647	2.3	5
13	Nucleation of Ga ₂ O ₃ nanocrystals in the K ₂ O-Ga ₂ O ₃ -SiO ₂ glass system. <i>Journal of Applied Physics</i> , 2001 , 90, 2522-2527	2.5	31
12	Synthesis of Ni metal particles by reaction between bis(cyclooctadiene)nickel(0) and sol-gel SiO ₂ modified with SiH ₃ groups.. <i>Journal of Materials Chemistry</i> , 2001 , 11, 678-683		15
11	Development of mullite-SiC nanocomposites by pyrolysis of filled polymethylsiloxane gels. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 2509-2517	6	34
10	Thermal evolution and crystallisation of polydimethylsiloxane/zirconia nanocomposites prepared by the sol-gel method. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 2849-2858	6	36
9	Quantitative Analysis of Silicate Glass in Ceramic Materials by the Rietveld Method. <i>Materials Science Forum</i> , 1998 , 278-281, 87-92	0.4	164
8	Pyrolysis Chemistry of Sol-Gel-Derived Poly(dimethylsiloxane)/zirconia Nanocomposites. Influence of Zirconium on Polymer-to-Ceramic Conversion. <i>Chemistry of Materials</i> , 1998 , 10, 268-278	9.6	36
7	Unsupported SiO ₂ -based organic/inorganic membranes. <i>Journal of Materials Chemistry</i> , 1997 , 7, 67-73		37
6	Hybrid gels as host matrices of perfumed essences. <i>Journal of Sol-Gel Science and Technology</i> , 1997 , 8, 1115-1119	2.3	8
5	Pyrolysis study of methyl-substituted SiH ₃ containing gels as precursors for oxycarbide glasses, by combined thermogravimetry, gas chromatographic and mass spectrometric analysis. <i>Journal of Materials Chemistry</i> , 1996 , 6, 585-594		64
4	SnO ₂ /SiO ₂ and Sn/Sb-oxide/SiO ₂ gel-derived composites. Part 1: Structural evolution from a Mössbauer study. <i>Journal of Sol-Gel Science and Technology</i> , 1995 , 5, 49-55	2.3	4
3	SiO ₂ /SnO ₂ and Sn/Sb-oxide/SiO ₂ gel-derived composites. Part 2: Thermal evolution and phase analysis. <i>Journal of Sol-Gel Science and Technology</i> , 1995 , 5, 57-64	2.3	1
2	Structural analysis of mixed tin oxides produced by the sol-gel method. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1995 , 190, 419-423	1.5	3
1	Laser assisted synthesis of ultrafine silicon powder. <i>Applied Surface Science</i> , 1989 , 43, 308-315	6.7	15