

# Riccardo Ceccato

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1091746/riccardo-ceccato-publications-by-citations.pdf>  
**Version:** 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
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 nanocrystalline TiO <sub>2</sub> (brookite, rutile and brookite-based) powders prepared by thermohydrolysis of TiCl <sub>4</sub> in aqueous chloride solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 317, 366-376	5.1	230
67	Quantitative Analysis of Silicate Glass in Ceramic Materials by the Rietveld Method. <i>Materials Science Forum</i> , <b>1998</b> , 278-281, 87-92	0.4	164
66	Highly Active Photocatalytic TiO <sub>2</sub> Powders Obtained by Thermohydrolysis of TiCl <sub>4</sub> in Water. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15166-15174	3.8	151
65	Synthesis and characterization of strontium-substituted hydroxyapatite nanoparticles for bone regeneration. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 653-662	8.3	84
64	Influence of curing temperature on the evolution of magnesium oxychloride cement. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 6726-6733	4.3	70
63	Pyrolysis study of methyl-substituted SiO <sub>2</sub> containing gels as precursors for oxycarbide glasses, by combined thermogravimetry, gas chromatographic and mass spectrometric analysis. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 585-594		64
62	Production of biodiesel from <i>Jatropha curcas</i> L. oil catalyzed by SO <sub>4</sub> <sup>2-</sup> /ZrO <sub>2</sub> catalyst: effect of interaction between process variables. <i>Bioresource Technology</i> , <b>2011</b> , 102, 4285-9	11	51
61	Deposition of Copper Phthalocyanine Films by Glow-Discharge-Induced Sublimation. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1895-1904	9.6	38
60	Sewage Sludge Hydrochar: An Option for Removal of Methylene Blue from Wastewater. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3445	2.6	37
59	Unsupported SiO <sub>2</sub> -based organic/inorganic membranes. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 67-73		37
58	Structural and Microstructural Evolution During Pyrolysis of Hybrid Polydimethylsiloxane-Titania Nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , <b>2005</b> , 34, 53-62	2.3	37
57	Docosane-Organosilica Microcapsules for Structural Composites with Thermal Energy Storage/Release Capability. <i>Materials</i> , <b>2019</b> , 12,	3.5	36
56	Pyrolysis Chemistry of Sol-Gel-Derived Poly(dimethylsiloxane)/Zirconia Nanocomposites. Influence of Zirconium on Polymer-to-Ceramic Conversion. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 268-278	9.6	36
55	Thermal evolution and crystallisation of polydimethylsiloxane/zirconia nanocomposites prepared by the sol-gel method. <i>Journal of the European Ceramic Society</i> , <b>1999</b> , 19, 2849-2858	6	36
54	Development of mullite-SiC nanocomposites by pyrolysis of filled polymethylsiloxane gels. <i>Journal of the European Ceramic Society</i> , <b>2000</b> , 20, 2509-2517	6	34
53	Processing and characterization of diatom nanoparticles and microparticles as potential source of silicon for bone tissue engineering. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 471-479	8.3	32
52	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> , <b>2009</b> , 18, 727	3.2	32

51	Nucleation of Ga <sub>2</sub> O <sub>3</sub> nanocrystals in the K <sub>2</sub> O-Ga <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass system. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 2522-2527	2.5	31
50	Role of Hydroxyl, Superoxide, and Nitrate Radicals on the Fate of Bromide Ions in Photocatalytic TiO <sub>2</sub> Suspensions. <i>ACS Catalysis</i> , <b>2020</b> , 10, 7922-7931	13.1	24
49	Viscoelastic behaviour and fracture toughness of linear-low-density polyethylene reinforced with synthetic boehmite alumina nanoparticles. <i>EXPRESS Polymer Letters</i> , <b>2013</b> , 7, 652-666	3.4	24
48	Ultrahigh figure-of-merit for hydrogen generation from sodium borohydride using ternary metal catalysts. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 69-75	8.9	21
47	Enhanced Solar Light Photocatalytic Activity of Ag Doped TiO <sub>2</sub> -AgPO Composites. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	20
46	Effect of functionalized graphene oxide concentration on the corrosion resistance properties provided by cathodoretic acrylic coatings. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 239, 121984	4.4	19
45	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> , <b>2003</b> , 26, 931-935	2.3	18
44	Enhanced Sol-Gel Route to Obtain a Highly Transparent and Conductive Aluminum-Doped Zinc Oxide Thin Film. <i>Materials</i> , <b>2019</b> , 12,	3.5	17
43	A powder metallurgy approach for the production of a MgH <sub>2</sub> -Al composite material. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 273-280	5.7	16
42	Formation of copper nanocrystals in alkali-lime silica glass by means of different reducing agents. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 345-346, 671-675	3.9	16
41	Synthesis of Ni metal particles by reaction between bis(cyclooctadiene)nickel(0) and sol-gel SiO <sub>2</sub> modified with SiH <sub>3</sub> groups.. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 678-683		15
40	Laser assisted synthesis of ultrafine silicon powder. <i>Applied Surface Science</i> , <b>1989</b> , 43, 308-315	6.7	15
39	Versatile and Scalable Strategy To Grow Sol-Gel Derived 2H-MoS <sub>2</sub> Thin Films with Superior Electronic Properties: A Memristive Case. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34392-34400	9.5	15
38	Superefficient thin film multilayer catalyst for generating hydrogen from sodium borohydride. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 741-746	8.9	14
37	Electrical and electro-optical investigations of liquid crystal cells containing TiO <sub>2</sub> /ZnO thin films prepared by sol-gel synthesis. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5340-5346	2.5	14
36	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> , <b>2020</b> , 81, 106181	4.5	13
35	Effects of Fumed Silica and Draw Ratio on Nanocomposite Polypropylene Fibers. <i>Polymers</i> , <b>2017</b> , 9,	4.5	12
34	Sol-Gel Synthesis of Vanadate-Based Thin Films as Counter Electrodes in Electrochromic Devices. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 26, 1071-1074	2.3	12

33	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> , <b>2003</b> , 322, 1-6	3.9	12
32	Sol-Gel Synthesis of TiO <sub>2</sub> Nanocrystalline Particles with Enhanced Surface Area through the Reverse Micelle Approach. <i>Advances in Materials Science and Engineering</i> , <b>2019</b> , 2019, 1-14	1.5	11
31	SiOCN Functionalized Carbon Nanotube Gas Sensors for Elevated Temperature Applications. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 1142-1149	3.8	10
30	Corrosion protection properties of functionalised graphene- $\beta$ -crylate coatings produced via cataphoretic deposition. <i>Progress in Organic Coatings</i> , <b>2019</b> , 136, 105261	4.8	10
29	Adsorptive properties of sol-gel derived hybrid organic/inorganic coatings. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 147, 954-962	4.4	10
28	Deposition of copper phthalocyanine films by glow discharge-induced sublimation for gas sensing applications. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 476-480	4.4	10
27	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> , <b>2019</b> , 12,	3.5	10
26	Filler-matrix interaction in sodium montmorillonite-organosilica nanocomposite coatings for corrosion protection. <i>Applied Clay Science</i> , <b>2017</b> , 150, 81-88	5.2	9
25	Starch-grafted-polypropylene/kenaf fibres composites. Part 2: thermal stability and dynamic-mechanical response. <i>Journal of Reinforced Plastics and Composites</i> , <b>2015</b> , 34, 2045-2058	2.9	9
24	Growth of nanotubes in sol-gel-derived V <sub>2</sub> O <sub>5</sub> powders and films prepared under acidic conditions. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 475-481	2.5	9
23	Microstructural refinement using ball-milling and spark-plasma sintering of MgH <sub>2</sub> based materials for hydrogen storage. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2009</b> , 33, 82-88	1.9	8
22	Hybrid gels as host matrices of perfumed essences. <i>Journal of Sol-Gel Science and Technology</i> , <b>1997</b> , 8, 1115-1119	2.3	8
21	Pyrolysis pathway of sol-gel derived organic/inorganic hybrid nanocomposites. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 322, 22-28	3.9	8
20	Effects of Graphene-Based Fillers on Cathodic Delamination and Abrasion Resistance of Cataphoretic Organic Coatings. <i>Coatings</i> , <b>2020</b> , 10, 602	2.9	8
19	Features and application of coupled cold plasma and photocatalysis processes for decontamination of water. <i>Chemosphere</i> , <b>2021</b> , 262, 128336	8.4	7
18	Melt spinning and drawing of polyethylene nanocomposite fibers with organically modified hydrotalcite. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	6
17	Aluminum doped zinc oxide coatings at low temperature by atmospheric pressure plasma jet. <i>Thin Solid Films</i> , <b>2020</b> , 708, 138118	2.2	5
16	Low-wavenumber Raman scattering spectroscopy in studies of new gallium-doped silica glass-based transparent vitroc ceramic medium. <i>Journal of Raman Spectroscopy</i> , <b>2001</b> , 32, 643-647	2.3	5

15	Graphene-Based Reinforcing Filler for Double-Layer Acrylic Coatings. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
14	Photocatalytic Partial Oxidation of Tyrosol: Improving the Selectivity Towards Hydroxytyrosol by Surface Fluorination of TiO <sub>2</sub> . <i>Topics in Catalysis</i> , <b>2020</b> , 63, 1350-1360	2.3	4
13	Hydroxylated Cyclophosphazene/Silica Hybrid Materials: Synthesis and Characterization. <i>Journal of Inorganic and Organometallic Polymers</i> , <b>2002</b> , 12, 59-78		4
12	SnO <sub>2</sub> /SiO <sub>2</sub> and Sn/Sb-oxide/SiO <sub>2</sub> gel-derived composites. Part 1: Structural evolution from a Mössbauer study. <i>Journal of Sol-Gel Science and Technology</i> , <b>1995</b> , 5, 49-55	2.3	4
11	Spectroscopic characterization of the mixed films TiO <sub>2</sub> -V <sub>2</sub> O <sub>5</sub> , used as counter electrodes in electrochromic devices and in liquid crystal cells. <i>Ionics</i> , <b>2002</b> , 8, 244-251	2.7	3
10	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> , <b>2005</b> , 25, 2647-2650	6.0	3
9	SOL-GEL Synthesis and Characterization of TiO <sub>2</sub> and TiO <sub>2</sub> -V <sub>2</sub> O <sub>5</sub> Films for Electrode in Asymmetric Liquid Crystal Cells. <i>Molecular Crystals and Liquid Crystals</i> , <b>2002</b> , 372, 305-320	0.5	3
8	Structural analysis of mixed tin oxides produced by the sol-gel method. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>1995</b> , 190, 419-423	1.5	3
7	Thin Films of Plasma-Polymerized n-Hexane and ZnO Nanoparticles Co-Deposited via Atmospheric Pressure Plasma Jet. <i>Coatings</i> , <b>2021</b> , 11, 167	2.9	2
6	Tunable hydrogen generation from sodium borohydride with silicon carbonitride functionalized carbon nanostructure electrode. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5447-5454	6.7	1
5	SiO <sub>2</sub> /SnO <sub>2</sub> and Sn/Sb-oxide/SiO <sub>2</sub> gel-derived composites. Part 2: Thermal evolution and phase analysis. <i>Journal of Sol-Gel Science and Technology</i> , <b>1995</b> , 5, 57-64	2.3	1
4	Electron and Energy Transfer Mechanisms: The Double Nature of TiO Heterogeneous Photocatalysis. <i>Topics in Current Chemistry</i> , <b>2021</b> , 380, 2	7.2	1
3	Photocatalytic activity of Eu-doped ZnO prepared by supercritical antisolvent precipitation route: When defects become virtues. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 112, 49-58	9.1	1
2	Effect of Hydrothermal Treatment and Doping on the Microstructural Features of Sol-Gel Derived BaTiO Nanoparticles. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
1	Optical and radioluminescence properties of ZnO:Zn as a function of reduction degree and treatment temperature. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 085104	2.5	