

Roberto Scotti

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

756
citations

567281

15
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

990
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Preparation of SnO ₂ and Pt-Doped SnO ₂ As Inverse Opal Thin Films for Gas Sensing. <i>Chemistry of Materials</i> , 2010, 22, 4083-4089.	6.7	96
2	Zinc-Based Curing Activators: New Trends for Reducing Zinc Content in Rubber Vulcanization Process. <i>Catalysts</i> , 2019, 9, 664.	3.5	83
3	Shape controlled spherical (0D) and rod-like (1D) silica nanoparticles in silica/styrene butadiene rubber nanocomposites: Role of the particle morphology on the filler reinforcing effect. <i>Polymer</i> , 2014, 55, 1497-1506.	3.8	62
4	Rubber-silica nanocomposites obtained by in situ sol-gel method: particle shape influence on the filler-filler and filler-rubber interactions. <i>Soft Matter</i> , 2012, 8, 2131.	2.7	57
5	Step-by-Step Growth of HKUST-1 on Functionalized TiO ₂ Surface: An Efficient Material for CO ₂ Capture and Solar Photoreduction. <i>Catalysts</i> , 2018, 8, 353.	3.5	52
6	High dielectric constant rutile-polystyrene composite with enhanced percolative threshold. <i>Journal of Materials Chemistry C</i> , 2013, 1, 484-492.	5.5	46
7	Size-controlled self-assembly of anisotropic sepiolite fibers in rubber nanocomposites. <i>Applied Clay Science</i> , 2018, 152, 51-64.	5.2	35
8	TiO ₂ nanocrystals grafted on macroporous silica: A novel hybrid organic-inorganic sol-gel approach for the synthesis of highly photoactive composite material. <i>Applied Catalysis B: Environmental</i> , 2011, 104, 282-290.	20.2	30
9	Surface interaction of WO ₃ nanocrystals with NH ₃ . Role of the exposed crystal surfaces and porous structure in enhancing the electrical response. <i>RSC Advances</i> , 2014, 4, 11012.	3.6	29
10	Hybrid SiO ₂ @POSS nanofiller: a promising reinforcing system for rubber nanocomposites. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1441-1452.	5.9	26
11	Insight into the Influence of ZnO Defectivity on the Catalytic Generation of Environmentally Persistent Free Radicals in ZnO/SiO ₂ Systems. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21651-21661.	3.1	25
12	Unveiling the hybrid interface in polymer nanocomposites enclosing silsesquioxanes with tunable molecular structure: Spectroscopic, thermal and mechanical properties. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 609-617.	9.4	20
13	On the key role of SiO ₂ @POSS hybrid filler in tailoring networking and interfaces in rubber nanocomposites. <i>Polymer Testing</i> , 2018, 65, 429-439.	4.8	18
14	A Green Approach for Preparing High-Loaded Sepiolite/Polymer Biocomposites. <i>Nanomaterials</i> , 2019, 9, 46.	4.1	18
15	Tailoring the Thermal Conductivity of Rubber Nanocomposites by Inorganic Systems: Opportunities and Challenges for Their Application in Tires Formulation. <i>Molecules</i> , 2021, 26, 3555.	3.8	18
16	Design of a Zn Single-Site Curing Activator for a More Sustainable Sulfur Cross-Link Formation in Rubber. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10180-10192.	3.7	17
17	The self-assembly of sepiolite and silica fillers for advanced rubber materials: The role of collaborative filler network. <i>Applied Clay Science</i> , 2022, 218, 106383.	5.2	17
18	Tailoring the Dielectric and Mechanical Properties of Polybutadiene Nanocomposites by Using Designed Ladder-like Polysilsesquioxanes. <i>ACS Applied Nano Materials</i> , 2018, 1, 3817-3828.	5.0	15

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19	Hybrid Interface in Sepiolite Rubber Nanocomposites: Role of Self-Assembled Nanostructure in Controlling Dissipative Phenomena. <i>Nanomaterials</i> , 2019, 9, 486.	4.1	14
20	Morphology Related Defectiveness in ZnO Luminescence: From Bulk to Nano-Size. <i>Nanomaterials</i> , 2020, 10, 1983.	4.1	14
21	New insights into the sensing mechanism of shape controlled ZnO particles. <i>RSC Advances</i> , 2016, 6, 52987-52997.	3.6	13
22	SiO ₂ /Ladder-Like Polysilsesquioxanes Nanocomposite Coatings: Playing with the Hybrid Interface for Tuning Thermal Properties and Wettability. <i>Coatings</i> , 2020, 10, 913.	2.6	13
23	Sol-gel derived mesoporous Pt and Cr-doped WO ₃ thin films: the role played by mesoporosity and metal doping in enhancing the gas sensing properties. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 378-387.	2.4	11
24	Wastewater Treatment Using Alkali-Activated-Based Sorbents Produced from Blast Furnace Slag. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2985.	2.5	7
25	Silica hairy nanoparticles: a promising material for self-assembling processes. <i>Soft Matter</i> , 2021, 17, 9434-9446.	2.7	7
26	Composite solid-state electrolyte based on hybrid poly(ethylene glycol)-silica fillers enabling long-life lithium metal batteries. <i>Electrochimica Acta</i> , 2022, 411, 140060.	5.2	6
27	Nonlinear Modelling of Kinetic Data Obtained from Photocatalytic Mineralisation of 2,4-Dichlorophenol on a Titanium Dioxide Membrane. <i>International Journal of Photoenergy</i> , 2009, 2009, 1-10.	2.5	4
28	Using the electron spin resonance to detect the functional centers in materials for sensor devices. <i>Ionics</i> , 2021, 27, 1839-1851.	2.4	1