

# Chiara Bisio

## List of Publications by Year in descending order

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99  
papers

2,315  
citations

218381

26  
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253896

43  
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103  
all docs

103  
docs citations

103  
times ranked

2947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of NMR relaxometry for real-time monitoring of the removal of metal ions from water by synthetic clays. Dalton Transactions, 2022, 51, 4502-4509.	1.6	1
2	Synthesis of Novel Luminescent Double-Decker Silsesquioxanes Based on Partially Condensed TetraSilanolPhenyl POSS and Tb <sup>3+</sup> /Eu <sup>3+</sup> Lanthanide Ions. Processes, 2022, 10, 758.	1.3	10
3	Silica Particles Derived from Natural Kaolinite for the Removal of Rhodamine B from Polluted Water. Processes, 2022, 10, 964.	1.3	4
4	Surface and structural characterization of Cu-exchanged hydroxyapatites and their application in H <sub>2</sub> O <sub>2</sub> electrocatalytic reduction. Applied Surface Science, 2022, 595, 153495.	3.1	6
5	On the correlation between Raman spectra and structural properties of activated carbons derived by hyper-crosslinked polymers. Research on Chemical Intermediates, 2021, 47, 419-431.	1.3	6
6	Bifunctional Europium(III) and Niobium(V)-Containing Saponite Clays for the Simultaneous Optical Detection and Catalytic Oxidative Abatement of Blister Chemical Warfare Agents. Chemistry - A European Journal, 2021, 27, 4723-4730.	1.7	6
7	Silica Monolith for the Removal of Pollutants from Gas and Aqueous Phases. Molecules, 2021, 26, 1316.	1.7	5
8	Niobium phosphates as bifunctional catalysts for the conversion of biomass-derived monosaccharides. Applied Catalysis A: General, 2021, 617, 118099.	2.2	18
9	Hyper Cross-Linked Polymers as Additives for Preventing Aging of PIM-1 Membranes. Membranes, 2021, 11, 463.	1.4	8
10	Bifunctional Paramagnetic and Luminescent Clays Obtained by Incorporation of Gd <sup>3+</sup> and Eu <sup>3+</sup> Ions in the Saponite Framework. Inorganic Chemistry, 2021, 60, 10749-10756.	1.9	4
11	Isomerization and Epimerization of Glucose Catalyzed by Sn-Containing Mesoporous Silica. Industrial & Engineering Chemistry Research, 2021, 60, 12821-12833.	1.8	5
12	Enhancement of the Luminescence Properties of Eu (III) Containing Paramagnetic Saponite Clays. Applied Sciences (Switzerland), 2021, 11, 8903.	1.3	3
13	Hyper-Cross-Linked Polymers for the Capture of Aromatic Volatile Compounds. ACS Applied Polymer Materials, 2020, 2, 647-658.	2.0	21
14	More Efficient Prussian Blue Nanoparticles for an Improved Caesium Decontamination from Aqueous Solutions and Biological Fluids. Molecules, 2020, 25, 3447.	1.7	8
15	Synthetic Saponite Clays as Additives for Reducing Aging Effects in PIM1 Membranes. ACS Applied Polymer Materials, 2020, 2, 3481-3490.	2.0	8
16	Novel light-emitting clays with structural Tb <sup>3+</sup> and Eu <sup>3+</sup> for chromate anion detection. RSC Advances, 2020, 10, 29765-29771.	1.7	11
17	An overview of the recent synthesis and functionalization methods of saponite clay. New Journal of Chemistry, 2020, 44, 9969-9980.	1.4	37
18	Toluene Adsorption by Mesoporous Silicas with Different Textural Properties: A Model Study for VOCs Retention and Water Remediation. Materials, 2020, 13, 2690.	1.3	4

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19	A Luminescent Polysilsesquioxane Obtained by Self-Condensation of Anionic Polyhedral Oligomeric Silsesquioxanes (POSS) and Europium(III) Ions. <i>ChemPlusChem</i> , 2020, 85, 176-182.	1.3	9
20	Synthetic saponite clays as promising solids for lanthanide ion recovery. <i>New Journal of Chemistry</i> , 2020, 44, 10033-10041.	1.4	13
21	Combination of solid-state NMR and $^1\text{H}$ NMR relaxometry for the study of intercalated saponite clays with the macrocyclic derivatives of $\text{Gd}(\text{III})$ and $\text{Y}(\text{III})$ . <i>Dalton Transactions</i> , 2020, 49, 6566-6571.	1.6	7
22	On the adsorption of toluene on amorphous mesoporous silicas with tunable sorption characteristics. <i>Dalton Transactions</i> , 2019, 48, 11781-11790.	1.6	4
23	Non-Porous versus Mesoporous Siliceous Materials for $\text{CO}_2$ Capture. <i>ChemistryOpen</i> , 2019, 8, 719-727.	0.9	17
24	Tungstenocene-grafted silica catalysts for the selective epoxidation of alkenes. <i>Applied Catalysis A: General</i> , 2019, 581, 133-142.	2.2	25
25	Recent developments in intercalation compounds: chemistry and applications. <i>Dalton Transactions</i> , 2018, 47, 2838-2840.	1.6	7
26	Novel paramagnetic clays obtained through intercalation of $\text{Gd}^{3+}$ -complexes. <i>Dalton Transactions</i> , 2018, 47, 7896-7904.	1.6	9
27	Iron-montmorillonite clays as active sorbents for the decontamination of hazardous chemical warfare agents. <i>Dalton Transactions</i> , 2018, 47, 2939-2948.	1.6	16
28	Switching Selectivity in the Hydrogen Transfer Reduction of Furfural. <i>ChemistrySelect</i> , 2018, 3, 8344-8348.	0.7	11
29	Combined solid-state NMR, FT-IR and computational studies on layered and porous materials. <i>Chemical Society Reviews</i> , 2018, 47, 5684-5739.	18.7	123
30	Estimation of the efficiency of applying nanocomposites as environmentally safe nanofertilizers to stimulate biometric indices of agricultural crops. <i>Agricultural Science and Practice</i> , 2018, 5, 64-76.	0.8	0
31	Physico-chemical Properties, Biological and Environmental Impact of Nb-saponites Catalysts for the Oxidative Degradation of Chemical Warfare Agents. <i>ChemistrySelect</i> , 2017, 2, 1812-1819.	0.7	9
32	On the Adsorption of Gaseous Mixtures of Hydrocarbons on High Silica Zeolites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6081-6089.	1.5	10
33	$\text{CO}_2$ adsorption on different organo-modified SBA-15 silicas: a multidisciplinary study on the effects of basic surface groups. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14114-14128.	1.3	22
34	Stabilization of mineral oil hydrocarbons in recycled paper pulp by organo-functionalized mesoporous silicas and evaluation of migration to food. <i>European Food Research and Technology</i> , 2017, 243, 1471-1484.	1.6	5
35	A multi-technique approach to disclose the reaction mechanism of dimethyl carbonate synthesis over amino-modified SBA-15 catalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 323-336.	10.8	26
36	The influence of particle size of amino-functionalized MCM-41 silicas on $\text{CO}_2$ adsorption. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29449-29460.	1.3	13

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37	Tungsten oxide: a catalyst worth studying for the abatement and decontamination of chemical warfare agents. <i>Global Security: Health, Science and Policy</i> , 2017, 2, 62-75.	1.0	4
38	Experimental Determination of the Molar Absorption Coefficient of <i>n</i> -Hexane Adsorbed on High-Silica Zeolites. <i>ChemPhysChem</i> , 2017, 18, 2374-2380.	1.0	6
39	Nanosized inorganic metal oxides as heterogeneous catalysts for the degradation of chemical warfare agents. <i>Catalysis Today</i> , 2016, 277, 192-199.	2.2	39
40	An efficient epoxidation of terminal aliphatic alkenes over heterogeneous catalysts: when solvent matters. <i>Catalysis Science and Technology</i> , 2016, 6, 3832-3839.	2.1	21
41	Gelation of solvent-free electrolyte using siliceous materials with different size and porosity for applications in dye sensitized solar cells. <i>Solar Energy</i> , 2016, 124, 101-113.	2.9	8
42	The stability of niobium-silica catalysts in repeated liquid-phase epoxidation tests: A comparative evaluation of in-framework and grafted mixed oxides. <i>Inorganica Chimica Acta</i> , 2015, 431, 190-196.	1.2	23
43	Interactions of Toluene and <i>n</i> -Hexane on High Silica Zeolites: An Experimental and Computational Model Study.. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24875-24886.	1.5	15
44	Influence of water on the retention of methyl tertiary-butyl ether by high silica ZSM-5 and Y zeolites: a multidisciplinary study on the adsorption from liquid and gas phase. <i>RSC Advances</i> , 2015, 5, 86997-87006.	1.7	22
45	Toward quasi-solid state Dye-sensitized Solar Cells: Effect of $\text{Al}_2\text{O}_3$ nanoparticle dispersion into liquid electrolyte. <i>Solar Energy</i> , 2015, 111, 125-134.	2.9	24
46	Organo-modified ZnO nanoparticles: tuning of the optical properties for PLED device fabrication. <i>New Journal of Chemistry</i> , 2014, 38, 6205-6211.	1.4	12
47	Niobium(V) Saponite Clay for the Catalytic Oxidative Abatement of Chemical Warfare Agents. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10095-10098.	7.2	83
48	Promotion of Förster Resonance Energy Transfer in a Saponite Clay Containing Luminescent Polyhedral Oligomeric Silsesquioxane and Rhodamine Dye. <i>Chemistry - an Asian Journal</i> , 2014, 9, 158-165.	1.7	21
49	Nanomaterials: biological effects and some aspects of applications in ecology and agriculture. , 2014, , .		5
50	Niobium(V) Saponite Clay for the Catalytic Oxidative Abatement of Chemical Warfare Agents. <i>Angewandte Chemie</i> , 2014, 126, 10259-10262.	1.6	21
51	Effect of iodine intercalation in nanosized layered double hydroxides for the preparation of quasi-solid electrolyte in DSSC devices. <i>Solar Energy</i> , 2014, 107, 692-699.	2.9	15
52	Grafted non-ordered niobium-silica materials: Versatile catalysts for the selective epoxidation of various unsaturated fine chemicals. <i>Catalysis Today</i> , 2014, 235, 49-57.	2.2	36
53	Enhancing the open circuit voltage of dye sensitized solar cells by surface engineering of silica particles in a gel electrolyte. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10142.	5.2	33
54	Niobium-silica catalysts for the selective epoxidation of cyclic alkenes: the generation of the active site by grafting niobocene dichloride. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13354.	1.3	59

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55	Novel insights on magadiite disaggregation: a multitechnique study on thermal stability. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13434.	1.3	15
56	The interactions of methyl tert-butyl ether on high silica zeolites: a combined experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13275.	1.3	27
57	Epoxidation with hydrogen peroxide of unsaturated fatty acid methyl esters over Nb(V)-silica catalysts. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 86-93.	1.0	43
58	Size effect of synthetic saponite-clay in quasi-solid electrolyte for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 9-14.	3.0	24
59	Preparation of luminescent ZnO nanoparticles modified with aminopropyltriethoxy silane for optoelectronic applications. <i>New Journal of Chemistry</i> , 2013, 37, 2103.	1.4	43
60	The polyelectrolyte-MoO <sub>3</sub> hybrids: Bottom up building of a layered anionic exchanger. <i>Materials Research Bulletin</i> , 2013, 48, 3342-3350.	2.7	4
61	Structured Inorganic Oxide-Based Materials for the Absorption and Destruction of CBRN Agents. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2013, , 43-53.	0.2	2
62	A novel electroluminescent PPV copolymer and silsesquioxane nanocomposite film for the preparation of efficient PLED devices. <i>Nanotechnology</i> , 2012, 23, 435702.	1.3	11
63	Rational design of single-site heterogeneous catalysts: towards high chemo-, regio- and stereoselectivity. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 1904-1926.	1.0	40
64	On the Intercalation of the Iodine-Iodide Couple on Layered Double Hydroxides with Different Particle Sizes. <i>Inorganic Chemistry</i> , 2012, 51, 2560-2568.	1.9	52
65	A novel stable and efficient light-emitting solid based on saponite and luminescent POSS. <i>Journal of Materials Chemistry</i> , 2012, 22, 25254.	6.7	25
66	The effect of synthesis gel dilution on the physico-chemical properties of acid saponite clays. <i>Microporous and Mesoporous Materials</i> , 2012, 162, 159-167.	2.2	32
67	The Role of Silanols in the Interactions between Methyl <i>tert</i> -Butyl Ether and High-Silica Faujasite Y: An Infrared Spectroscopy and Computational Model Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6943-6952.	1.5	26
68	On the organic/inorganic interface between mesoporous SBA-16 silica and its structural directing polymer: a combined FT-IR and solid state NMR study. <i>RSC Advances</i> , 2012, 2, 1153-1160.	1.7	7
69	Acid/Vanadium-Containing Saponite for the Conversion of Propene into Coke: Potential Flame-Retardant Filler for Nanocomposite Materials. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2394-2402.	1.7	8
70	Ti-POSS covalently immobilized onto mesoporous silica: A model for active sites in heterogeneous catalytic epoxidation. <i>Inorganica Chimica Acta</i> , 2012, 380, 244-251.	1.2	21
71	Vanadium oxide intercalated with polyelectrolytes: Novel layered hybrids with anion exchange properties. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 462-469.	5.0	16
72	On the Physico-Chemical Properties of ZnO Nanosheets Modified with Luminescent CdTe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25257-25265.	1.5	19

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73	Incorporation of a Semiconductive Polymer into Mesoporous SBA-15 Platelets: Toward New Luminescent Hybrid Materials. <i>Chemistry of Materials</i> , 2011, 23, 2803-2809.	3.2	31
74	One-Pot Synthesis and Physicochemical Properties of an Organo-Modified Saponite Clay. <i>Langmuir</i> , 2011, 27, 7250-7257.	1.6	30
75	One-pot synthesis of mesoporous [Al]-SBA-16 and acidity characterization by CO adsorption. <i>Microporous and Mesoporous Materials</i> , 2011, 145, 124-130.	2.2	13
76	Organic-Inorganic Hybrid Saponites Obtained by Intercalation of Titanosilsesquioxane. <i>Chemistry - an Asian Journal</i> , 2011, 6, 914-921.	1.7	9
77	Design and Applications of Multifunctional Catalysts Based on Inorganic Oxides. , 2011, , 13-53.		1
78	On the hydrothermal stability of MCM-41 mesoporous silica nanoparticles and the preparation of luminescent materials. <i>Journal of Materials Chemistry</i> , 2010, 20, 5504.	6.7	49
79	Physicochemical Characterization and Surface Acid Properties of Mesoporous [Al]-SBA-15 Obtained by Direct Synthesis. <i>Langmuir</i> , 2010, 26, 5791-5800.	1.6	105
80	Titanosilsesquioxanes Embedded in Synthetic Clay as a Hybrid Material for Polymer Science. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6059-6061.	7.2	47
81	On the Properties of a Novel V-Containing Saponite Catalyst for Propene Oxidative Dehydrogenation. <i>Catalysis Letters</i> , 2009, 131, 42-48.	1.4	14
82	An efficient ring opening reaction of methyl epoxystearate promoted by synthetic acid saponite clays. <i>Green Chemistry</i> , 2009, 11, 1173.	4.6	24
83	Structural changes induced by dehydration in the crystalline layered silicate Na-RUB-18: a computational/experimental combined study. <i>Journal of Materials Chemistry</i> , 2009, 19, 2610.	6.7	13
84	Titanosilsesquioxane Anchored on Mesoporous Silicas: A Novel Approach for the Preparation of Heterogeneous Catalysts for Selective Oxidations. <i>Chemistry - A European Journal</i> , 2008, 14, 8098-8101.	1.7	44
85	Understanding physicochemical properties of saponite synthetic clays. <i>Microporous and Mesoporous Materials</i> , 2008, 107, 90-101.	2.2	80
86	Surface acidity of novel mesostructured silicas with framework aluminum obtained by SBA-16 related synthesis. <i>Microporous and Mesoporous Materials</i> , 2008, 111, 632-635.	2.2	27
87	Dispersion and states of platinum ions in BEA-zeolite pores: effect of the framework basicity. <i>Research on Chemical Intermediates</i> , 2008, 34, 565-576.	1.3	5
88	Quantification of Brønsted Acid Sites in Microporous Catalysts by a Combined FTIR and NH <sub>3</sub> -TPD Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7193-7200.	1.5	177
89	On the Acidity of Saponite Materials: A Combined HRTEM, FTIR, and Solid-State NMR Study. <i>Langmuir</i> , 2008, 24, 2808-2819.	1.6	35
90	FT-IR Evidence of Two Distinct Protonic Sites in BEA Zeolite: Consequences on Cationic Exchange and on Acido-Basic Properties in the Presence of Cesium. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10520-10530.	1.5	34

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91	Interface Between Alkylammonium Ions and Layered Aluminophosphates Materials: A Combined Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2008, 20, 4980-4985.	3.2	7
92	On the platinum species of Pt/H-MCM-22 catalyst for methane combustion. <i>Studies in Surface Science and Catalysis</i> , 2008, , 837-840.	1.5	0
93	Ti(IV) Catalytic Centers Grafted on Different Siliceous Materials: Spectroscopic and Catalytic Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5083-5089.	1.5	64
94	Aluminum Magadiite: an Acid Solid Layered Material. <i>Chemistry of Materials</i> , 2007, 19, 4300-4315.	3.2	60
95	Layered Assembly of Organic Molecules and Host-Guest Interactions in a CAL Chabasite Type Precursor of H <sub>2</sub> SAPO <sub>34</sub> Catalysts. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8895-8897.	7.2	13
96	Investigation of co-hosted basic and metal nanoparticles in Pt/Cs-BEA zeolites. <i>Catalysis Today</i> , 2007, 124, 36-42.	2.2	5
97	Identification of cationic and oxidic caesium species in basic Cs-overloaded BEA zeolites. <i>Microporous and Mesoporous Materials</i> , 2006, 90, 175-187.	2.2	24
98	Nanocomposite catalytic materials: synthesis, characterisation and reactivity of Pt/Cs-BEA zeolites. <i>Inorganica Chimica Acta</i> , 2003, 349, 227-238.	1.2	12
99	NO and CO Adsorption on Over-Exchanged Cu-MCM-22: A FTIR Study. <i>Langmuir</i> , 2002, 18, 6875-6880.	1.6	26