

# Silvia Borsacchi

## List of Publications by Year in descending order

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73  
papers

1,519  
citations

331670

21  
h-index

361022

35  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-State NMR Studies of Pharmaceutical Systems. <i>Applied Spectroscopy Reviews</i> , 2008, 43, 202-302.	6.7	152
2	New LDPE based anion-exchange membranes for alkaline solid polymeric electrolyte water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14992-15002.	7.1	100
3	Applications of Solid-State NMR to the Study of Organic/Inorganic Multicomponent Materials. <i>Applied Spectroscopy Reviews</i> , 2008, 44, 1-89.	6.7	78
4	Structural characterization of magnesium silicate hydrate: towards the design of eco-sustainable cements. <i>Dalton Transactions</i> , 2016, 45, 3294-3304.	3.3	74
5	On the Interaction of Sodium Dodecyl Sulfate with Oligomers of Poly(Ethylene Glycol) in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8960-8969.	2.6	70
6	Interactions at the Surface of Organophilic-Modified Laponites: A Multinuclear Solid-State NMR Study. <i>Langmuir</i> , 2007, 23, 3953-3960.	3.5	57
7	Polymer-Based Black Phosphorus (bP) Hybrid Materials by in Situ Radical Polymerization: An Effective Tool To Exfoliate bP and Stabilize bP Nanoflakes. <i>Chemistry of Materials</i> , 2018, 30, 2036-2048.	6.7	57
8	Noncovalent Functionalization of 2D Black Phosphorus with Fluorescent Boronic Derivatives of Pyrene for Probing and Modulating the Interaction with Molecular Oxygen. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22637-22647.	8.0	42
9	MVS-derived palladium nanoparticles deposited on polydimethylphosphazene as recyclable catalysts for Heck-type reactions: Preparation, structural study, and catalytic activity. <i>Journal of Catalysis</i> , 2007, 246, 351-361.	6.2	38
10	Strong Intermolecular Ring Current Influence on <sup>1</sup> H Chemical Shifts in Two Crystalline Forms of Naproxen: a Combined Solid-State NMR and DFT Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17731-17740.	3.1	35
11	Dynamics by Solid-State NMR: Detailed Study of Ibuprofen Na Salt and Comparison with Ibuprofen. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8783-8790.	2.5	30
12	Structural and photophysical properties of rare-earth complexes encapsulated into surface modified mesoporous silica nanoparticles. <i>Dalton Transactions</i> , 2014, 43, 16183-16196.	3.3	27
13	Solid-Solid Transition between Hydrated Racemic Compound and Anhydrous Conglomerate in Na-Ibuprofen: A Combined X-ray Diffraction, Solid-State NMR, Calorimetric, and Computational Study. <i>Crystal Growth and Design</i> , 2014, 14, 2441-2452.	3.0	27
14	Improving compatibility in LDPE-silica dispersions by photo-grafting reaction. Preparation and solid state NMR investigation. <i>Journal of Materials Chemistry</i> , 2006, 16, 4581-4591.	6.7	26
15	Detailed Characterization of the Dynamics of Ibuprofen in the Solid State by a Multi-Technique NMR Approach. <i>ChemPhysChem</i> , 2011, 12, 974-981.	2.1	26
16	Solid-state nuclear magnetic resonance characterization of PE-PEG/silica hybrid materials prepared by microwave-assisted sol-gel process. <i>Journal of Materials Research</i> , 2007, 22, 3516-3525.	2.6	24
17	Proton conducting membranes in fully anhydrous conditions at elevated temperature: Effect of Nitrotris(methylenephosphonic acid) incorporation into Nafion- and poly(styrenesulfonic acid). <i>Journal of Membrane Science</i> , 2014, 469, 162-173.	8.2	24
18	Hydration of MgO/SiO <sub>2</sub> and Portland cement mixtures: A structural investigation of the hydrated phases by means of X-ray diffraction and solid state NMR spectroscopy. <i>Cement and Concrete Research</i> , 2017, 102, 60-67.	11.0	24

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19	Thermochromic polyethylene films doped with perylene chromophores: experimental evidence and methods for characterization of their phase behaviour. <i>Polymer Chemistry</i> , 2015, 6, 4003-4012.	3.9	22
20	Engineering of oxoclusters-reinforced polymeric materials with application as heterogeneous oxysulfurization catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 636-644.	20.2	22
21	Effect of phosphate additives on the hydration process of magnesium silicate cements. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3311-3321.	3.6	22
22	Comb-Shaped Polymers as Nanostructure Modifiers of Calcium Silicate Hydrate: A <sup>29</sup> Si Solid-State NMR Investigation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22947-22953.	3.1	21
23	Phosphorene and Black Phosphorus: The <sup>31</sup> P NMR View. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5122-5127.	4.6	21
24	Oriental Order of Fluorinated Mesogens Containing the 1,3,2-Dioxaborinane Ring: A Multidisciplinary Approach. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15783-15794.	2.6	20
25	Boosting the NIR reflective properties of perylene organic coatings with thermoplastic hollow microspheres: Optical and structural properties by a multi-technique approach. <i>Solar Energy</i> , 2020, 198, 689-695.	6.1	20
26	<sup>13</sup> C Chemical Shielding Tensors: A Combined Solid-State NMR and DFT Study of the Role of Small-Amplitude Motions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25023-25029.	3.1	19
27	Epoxy resin doped with Coumarin 6: Example of accessible luminescent collectors. <i>European Polymer Journal</i> , 2017, 89, 23-33.	5.4	19
28	Monitoring the hydration of MgO-based cement and its mixtures with Portland cement by <sup>1</sup> H NMR relaxometry. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 26-30.	4.4	19
29	Characterization of an amylose-graft-poly(n-butyl methacrylate) copolymer obtained by click chemistry by EPR and SS-NMR spectroscopies. <i>Carbohydrate Polymers</i> , 2014, 112, 245-254.	10.2	18
30	Traditional Portland cement and MgO-based cement: a promising combination?. <i>Physics and Chemistry of the Earth</i> , 2017, 99, 158-167.	2.9	18
31	Understanding the Properties of the Coagel and Gel Phases: A <sup>2</sup> H and <sup>13</sup> C NMR Study of Amphiphilic Ascorbic Acid Derivatives. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15872-15878.	2.6	17
32	P3HT/PCBM Photoactive Materials for Solar Cells: Morphology and Dynamics by Means of Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 131-139.	3.1	17
33	Understanding the aggregation of bis(benzoxazolyl)stilbene in PLA/PBS blends: a combined spectrofluorimetric, calorimetric and solid state NMR approach. <i>Polymer Chemistry</i> , 2014, 5, 828-835.	3.9	17
34	Structural order and NIR reflective properties of perylene bisimide pigments: Experimental evidences from a combined multi-technique study. <i>Dyes and Pigments</i> , 2020, 179, 108401.	3.7	16
35	Interlayer Coordination of Pd <sup>2+</sup> Units in Exfoliated Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2021, 143, 10088-10098.	13.7	16
36	Facile synthesis of core-shell organic-inorganic hybrid nanoparticles with amphiphilic polymer shell by one-step sol-gel reactions. <i>Journal of Polymer Science Part A</i> , 2008, 46, 1699-1709.	2.3	15

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37	Freezing of Molecular Motions Probed by Cryogenic Magic Angle Spinning NMR. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 512-516.	4.6	15
38	Rubber-Filler Interactions in Polyisoprene Filled with In Situ Generated Silica: A Solid State NMR Study. <i>Polymers</i> , 2018, 10, 822.	4.5	14
39	Molecular Dynamics of Amphiphilic Random Copolymers in the Bulk: A $^1\text{H}$ and $^{19}\text{F}$ NMR Relaxometry Study. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900177.	2.2	12
40	Solid State NMR Investigation of the Molecular Dynamics of Cocoon Silks Produced by Different <i>Bombyx mori</i> (Lepidoptera) Strains. <i>Biomacromolecules</i> , 2006, 7, 1266-1273.	5.4	11
41	Highly stable plastic optical fibre amplifiers containing $[\text{Eu}(\text{btfa})_3(\text{MeOH})(\text{bpeta})]$ : A luminophore able to drive the synthesis of polyisocyanates. <i>Polymer</i> , 2014, 55, 488-494.	3.8	11
42	Latent Thermal Storage for Solar Cooling Applications: Materials Characterization and Numerical Optimization of Finned Storage Configurations. <i>Heat Transfer Engineering</i> , 2019, 40, 1033-1048.	1.9	11
43	The Thermo-Oxidative Behavior of Cotton Coated with an Intumescent Flame Retardant Glycine-Derived Polyamidoamine: A Multi-Technique Study. <i>Polymers</i> , 2021, 13, 4382.	4.5	11
44	Optical properties of a polyethylene dispersion with a luminescent silica prepared by surface grafting of a perylene derivative. <i>European Polymer Journal</i> , 2011, 47, 1589-1600.	5.4	10
45	Insights into Shape-Memory Poly( $\mu$ -caprolactone) Materials by Solid-State NMR. <i>Macromolecules</i> , 2014, 47, 3544-3552.	4.8	10
46	Hydration of MgO-Based Cement: Water Dynamics by $^1\text{H}$ Fast Field-Cycling NMR Relaxometry. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26851-26859.	3.1	10
47	Dynamics of Clay-Intercalated Ibuprofen Studied by Solid State Nuclear Magnetic Resonance. <i>Molecular Pharmaceutics</i> , 2019, 16, 2569-2578.	4.6	10
48	Effect of sepiolite treatments on the oxidation of sepiolite/natural rubber nanocomposites prepared by latex compounding technique. <i>Applied Clay Science</i> , 2020, 189, 105528.	5.2	10
49	Interrelation between preparation conditions, structure, and mechanical reinforcement in isoprene rubber filled with in situ generated silica. <i>Journal of Applied Polymer Science</i> , 2012, 125, E398.	2.6	9
50	Synthesis, Characterization, and Solid-State NMR Investigation of Organically Modified Bentonites and Their Composites with LDPE. <i>Langmuir</i> , 2013, 29, 9164-9172.	3.5	9
51	Anisotropy and NMR spectroscopy. <i>Rendiconti Lincei</i> , 2020, 31, 999-1010.	2.2	9
52	Structure, dynamics and interactions of complex sol-gel hybrid materials through SSNMR and DSC: Part I, binary systems based on PE-PEG block copolymer, PHS and silica. <i>Polymer</i> , 2011, 52, 4536-4544.	3.8	8
53	Glassy and Polymer Dynamics of Elastomers by $^1\text{H}$ Field-Cycling NMR Relaxometry: Effects of Cross-Linking. <i>Macromolecules</i> , 2020, 53, 10028-10039.	4.8	8
54	Influence of Sulfur-Curing Conditions on the Dynamics and Crosslinking of Rubber Networks: A Time-Domain NMR Study. <i>Polymers</i> , 2022, 14, 767.	4.5	8

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55	A multinuclear solid-state magnetic resonance study of the interactions between the inorganic and organic coatings of BaSO <sub>4</sub> submicronic particles. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 52-57.	1.9	6
56	Direct observation of the effects of small-amplitude motions on <sup>13</sup> C nuclear shielding tensors by means of low-temperature 2D MAS NMR spectroscopy. <i>Chemical Physics Letters</i> , 2018, 706, 107-112.	2.6	6
57	Structure, dynamics and interactions of complex sol-gel hybrid materials through SSNMR and DSC: Part II, ternary systems based on PE-PEG block copolymer, PHS and silica. <i>Polymer</i> , 2011, 52, 4545-4552.	3.8	5
58	Orientational order of liquid crystals by <sup>11</sup> B NMR spectroscopy. <i>Chemical Physics Letters</i> , 2011, 508, 63-66.	2.6	5
59	Tuning the functionalization degree of amylose and amylopectin with photochromic spiropyran by CuAAC reaction. <i>Polymer</i> , 2017, 120, 82-93.	3.8	5
60	Glassy and Polymer Dynamics of Elastomers by <sup>1</sup> H-Field-Cycling NMR Relaxometry: Effects of Fillers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4546-4554.	2.6	5
61	Solid-state NMR characterization of diastereoisomeric chiral stationary phases and their soluble models. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 28, 193-203.	2.3	4
62	Proton Spin Lattice Relaxation in Silkworm Cocoons: Physisorbed Water and Serine Side-Chain Motions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2586-2592.	2.6	4
63	Phase transitions in hydrophobe/phospholipid mixtures: hints at connections between pheromones and anaesthetic activity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15375-15383.	2.8	4
64	Structure and Dynamics of Perylene Bisimide Pigments for Cool-Organic Coatings by Solid-State NMR: A Combined Experimental and DFT Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17971-17980.	3.1	4
65	Exploring the interplay of mucin with biologically-relevant amorphous magnesium-calcium phosphate nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 802-811.	9.4	4
66	Dispersion of Few-Layer Black Phosphorus in Binary Polymer Blend and Block Copolymer Matrices. <i>Nanomaterials</i> , 2021, 11, 1996.	4.1	4
67	Functionalization of Mesoporous Silica Nanoparticles with Organosilanes: Experimental Evidence of the Interaction Between Organic Groups and Silica Surface. <i>Current Organic Chemistry</i> , 2017, 21, .	1.6	4
68	Incorporation of 2D black phosphorus (2D-bP) in P3HT/PMMA mixtures for novel materials with tuned spectroscopic, morphological and electric features. <i>FlatChem</i> , 2021, 30, 100314.	5.6	4
69	A multinuclear solid-state magnetic resonance study on submicrometer-sized SiO <sub>2</sub> particles encapsulated by a PMMA shell. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 369, 191-195.	4.7	3
70	NMR Spectroscopy of Clay-Polymer Nanocomposites. , 2017, , 307-325.		3
71	Solid State NMR Study of the Mixing Degree Between Ginkgo Biloba Extract and a Soy-Lecithin-Phosphatidylserine in a Composite Prepared by the Phytosome® Method. <i>Chemistry Africa</i> , 2020, 3, 717-725.	2.4	3
72	Solid-state NMR as a powerful tool for the structural and dynamic characterization of insoluble perfluoropolyether-tetrafluoroethylene block copolymers. <i>Journal of Fluorine Chemistry</i> , 2016, 192, 22-26.	1.7	2

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73	Structure and orientation of small molecules dissolved in the liquid crystalline phases of CsPFO/water system by multinuclear NMR. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3996.	2.8	1