

Vincenzo Venditto

List of Publications by Year in descending order

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115
papers

3,778
citations

109264

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h-index

149623

56
g-index

116
all docs

116
docs citations

116
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerogels with a Microporous Crystalline Host Phase. <i>Advanced Materials</i> , 2005, 17, 1515-1518.	11.1	182
2	Shape and Volume of Cavities in Thermoplastic Molecular Sieves Based on Syndiotactic Polystyrene. <i>Chemistry of Materials</i> , 2001, 13, 1506-1511.	3.2	174
3	An Intercalate Molecular Complex of Syndiotactic Polystyrene. <i>Macromolecules</i> , 2005, 38, 6965-6971.	2.2	121
4	Thermoplastic Molecular Sieves. <i>Chemistry of Materials</i> , 2000, 12, 363-368.	3.2	116
5	Crystalline structures of intercalate molecular complexes of syndiotactic polystyrene with two fluorescent guests: 1,3,5-Trimethyl-benzene and 1,4-dimethyl-naphthalene. <i>Polymer</i> , 2006, 47, 2402-2410.	1.8	112
6	Salalen Titanium Complexes in the Highly Isospecific Polymerization of 1-Hexene and Propylene. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3529-3532.	7.2	107
7	Polymeric sensing films absorbing organic guests into a nanoporous host crystalline phase. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 255-261.	4.0	103
8	Regeneration of nanoporous crystalline syndiotactic polystyrene by supercritical CO ₂ . <i>Journal of Applied Polymer Science</i> , 1999, 74, 2077-2082.	1.3	101
9	N-doped TiO ₂ /PS aerogels for photocatalytic degradation of organic dyes in wastewater under visible light irradiation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1175-1181.	1.6	89
10	Probing by Time-Resolved FTIR Spectroscopy Mass Transport, Molecular Interactions, and Conformational Ordering in the System Chloroform/Syndiotactic Polystyrene. <i>Macromolecules</i> , 2002, 35, 2296-2304.	2.2	88
11	Optical Recording Materials Based on Photoisomerization of Guest Molecules of a Polymeric Crystalline Host Phase. <i>Advanced Materials</i> , 2005, 17, 1166-1168.	11.1	84
12	Gas sorption and transport in syndiotactic polystyrene with nanoporous crystalline phase. <i>Polymer</i> , 2004, 45, 429-436.	1.8	80
13	Fluorescence of Syndiotactic Polystyrene/Trimethylbenzene Clathrate and Intercalate Co-Crystals. <i>Chemistry of Materials</i> , 2007, 19, 6041-6046.	3.2	78
14	Molecular Sensing by Nanoporous Crystalline Polymers. <i>Sensors</i> , 2009, 9, 9816-9857.	2.1	75
15	Ring-opening homo- and co-polymerization of lactides and ϵ -caprolactone by salalen aluminum complexes. <i>Dalton Transactions</i> , 2015, 44, 2157-2165.	1.6	75
16	Tailor-Made Stereoblock Copolymers of Poly(lactic acid) by a Truly Living Polymerization Catalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 12041-12044.	6.6	71
17	Orientation and Microenvironment of Naphthalene Guest in the Host Nanoporous Phase of Syndiotactic Polystyrene. <i>Macromolecules</i> , 2005, 38, 3696-3702.	2.2	66
18	Anisotropic Guest Diffusion in the Crystalline Host Phase of Syndiotactic Polystyrene: Transport Kinetics in Films with Three Different Uniplanar Orientations of the Host Phase. <i>Chemistry of Materials</i> , 2006, 18, 2205-2210.	3.2	66

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19	Guest Orientation in Uniplanar-Axial Polymer Host Films and in Co-Crystal Unit-Cell, Determined by Angular Distributions of Polarized Guest Fluorescence. <i>Macromolecules</i> , 2008, 41, 9156-9164.	2.2	62
20	Possible model for chain end control of stereoregularity in the isospecific homogeneous Ziegler-Natta polymerization. <i>Polymer</i> , 1990, 31, 530-537.	1.8	59
21	Photoisomerization patterns based on molecular complex phases of syndiotactic polystyrene. <i>Journal of Materials Chemistry</i> , 2007, 17, 531-535.	6.7	59
22	A Clear-Cut Experimental Method to Discriminate between In-Plane and Out-of-Plane Molecular Transition Moments. <i>Journal of the American Chemical Society</i> , 2005, 127, 13114-13115.	6.6	52
23	Same Ligand, Different Metals: Diiodo π -Salen Complexes of the Group 4 Triad in Isospecific Polymerization of 1-Hexene and Propylene. <i>Macromolecules</i> , 2010, 43, 1689-1691.	2.2	49
24	Thermal and Structural Characterization of Poly(methylene-1,3-cyclopentane) Samples of Different Microstructures. <i>Macromolecules</i> , 1995, 28, 2383-2388.	2.2	48
25	Polymer/Gas Clathrates for Gas Storage and Controlled Release. <i>Macromolecules</i> , 2006, 39, 9166-9170.	2.2	48
26	The Dual σ -Stereocontrol Mechanism: Heteroselective Polymerization of rac ϵ -Lactide and Syndioselective Polymerization of meso ϵ -Lactide by Chiral Aluminum Salen Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14679-14685.	7.2	47
27	Polymerization of rac ϵ -Lactide Using Achiral Iron Complexes: Access to Thermally Stable Stereocomplexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12585-12589.	7.2	47
28	Block σ -Stereoblock Copolymers of Poly(ϵ -Caprolactone) and Poly(Lactic Acid). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7191-7195.	7.2	46
29	Polymorphism and chain conformations in the crystalline forms of syndiotactic poly(1-butene). <i>Macromolecules</i> , 1991, 24, 5645-5650.	2.2	43
30	Synthesis of Isotactic Poly-1,2-(4-methyl-1,3-pentadiene) by a Homogeneous Titanium Catalyst. <i>Macromolecules</i> , 2003, 36, 9249-9251.	2.2	42
31	Visible light active Fe-Pr co-doped TiO ₂ for water pollutants degradation. <i>Catalysis Today</i> , 2021, 380, 93-104.	2.2	42
32	Structural analogies between homogeneous and heterogeneous catalysts for the stereospecific polymerization of 1-alkenes. <i>Journal of Molecular Catalysis</i> , 1992, 74, 433-442.	1.2	40
33	Removal of phenol in aqueous media by N-doped TiO ₂ based photocatalytic aerogels. <i>Materials Science in Semiconductor Processing</i> , 2018, 80, 104-110.	1.9	40
34	Copolymerization of cyclic esters, epoxides and anhydrides: evidence of the dual role of the monomers in the reaction mixture. <i>Catalysis Science and Technology</i> , 2018, 8, 5034-5043.	2.1	39
35	Syndiotactic Polystyrene Films with Sulfonated Amorphous Phase and Nanoporous Crystalline Phase. <i>Chemistry of Materials</i> , 2009, 21, 3191-3196.	3.2	38
36	Nanoporous-crystalline poly(2,6-dimethyl-1,4-phenylene)oxide (PPO) aerogels. <i>Polymer</i> , 2016, 105, 96-103.	1.8	36

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37	Crystal Structure of Form III and the Polymorphism of Isotactic Poly(4-methylpentene-1). <i>Macromolecules</i> , 1994, 27, 3864-3868.	2.2	34
38	Group 4 Metal Complexes of Phenylene Salalen Ligands in Lactide Polymerization Giving High Molecular Weight Stereoblock Poly(lactic acid). <i>Chemistry - A European Journal</i> , 2017, 23, 11540-11548.	1.7	33
39	One-Step Catalytic or Photocatalytic Oxidation of Benzene to Phenol: Possible Alternative Routes for Phenol Synthesis?. <i>Catalysts</i> , 2020, 10, 1424.	1.6	33
40	Mechanism of monomer insertion for heterogeneous isospecific Ziegler-Natta catalytic models. <i>European Polymer Journal</i> , 1991, 27, 45-54.	2.6	32
41	Ring-opening polymerization of ϵ -6-hexadecenolactone by a salicylaldiminato aluminum complex: a route to semicrystalline and functional poly(ester)s. <i>Polymer Chemistry</i> , 2015, 6, 1727-1740.	1.9	32
42	Chloroform sorption in nanoporous crystalline and amorphous phases of syndiotactic polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 8-15.	2.4	31
43	Divergent $[\{ONNN\}MgCl]$ complexes in highly active and living lactide polymerization. <i>Chemical Science</i> , 2017, 8, 5476-5481.	3.7	31
44	Density Functional Theory Study and Photocatalytic Activity of ZnO/N-Doped TiO ₂ Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7000-7011.	1.5	31
45	Crystal structure of the form I of syndiotactic poly(1-butene). <i>Die Makromolekulare Chemie</i> , 1992, 193, 1351-1358.	1.1	30
46	C2-Symmetric Zirconocenes for High Molecular Weight Amorphous Poly(propylene). <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 2010-2028.	1.1	30
47	Ethylene-Styrene Copolymers by ansa-Zirconocene- and half-Titanocene-Based Catalysts: Composition, Stereoregularity, and Crystallinity. <i>Macromolecules</i> , 1998, 31, 4027-4029.	2.2	29
48	Monolithic Polymeric Aerogels with VOCs Sorbent Nanoporous Crystalline and Water Sorbent Amorphous Phases. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1318-1326.	4.0	28
49	Zirconium and hafnium Salalen complexes in isospecific polymerisation of propylene. <i>Dalton Transactions</i> , 2013, 42, 9096.	1.6	27
50	Crystal Structure of the Stereoregular Ethylene-alt-styrene Copolymer Synthesized with a Zirconocene-Based Catalyst. <i>Macromolecules</i> , 1999, 32, 2675-2678.	2.2	26
51	Poly(l-lactic acid): Uniplanar Orientation in Cocrystalline Films and Structure of the Cocrystalline Form with Cyclopentanone. <i>Macromolecules</i> , 2015, 48, 7513-7520.	2.2	26
52	Polymorphic Behavior of Syndiotactic Poly(p-chlorostyrene) and Styrene/p-Chlorostyrene Cosyndiotactic Random Copolymers. <i>Macromolecules</i> , 2003, 36, 7577-7584.	2.2	25
53	Block-Stereoblock Copolymers of Poly(ϵ -Caprolactone) and Poly(Lactic Acid). <i>Angewandte Chemie</i> , 2018, 130, 7309-7313.	1.6	25
54	Study of the electroluminescence of highly stereoregular poly(N-pentenyl-carbazole) for blue and white OLEDs. <i>Semiconductor Science and Technology</i> , 2017, 32, 065006.	1.0	23

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55	Isospecific Polymerization of ϵ -Lactide by Highly Active Sequential {ONNN} Magnesium Complexes. <i>Chemistry - A European Journal</i> , 2020, 26, 17183-17189.	1.7	23
56	Clathrate Phases of Styrene/ <i>p</i> -Methylstyrene co-Syndiotactic Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 859-867.	1.1	22
57	Synthesis, characterization, and use as emissive layer of white organic light emitting diodes of the highly isotactic poly(<i>N</i> -pentenyl-carbazole). <i>Polymer Composites</i> , 2015, 36, 1110-1117.	2.3	22
58	Influence of aggregate size on photoactivity of N-doped TiO ₂ particles in aqueous suspensions under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 336, 191-197.	2.0	22
59	Synthesis of poly(4-(<i>N</i> -carbazolyl)methyl styrene)s: Tailoring optical properties through stereoregularity. <i>European Polymer Journal</i> , 2017, 88, 246-256.	2.6	22
60	Highly Robust and Selective System for Water Pollutants Removal: How to Transform a Traditional Photocatalyst into a Highly Robust and Selective System for Water Pollutants Removal. <i>Nanomaterials</i> , 2019, 9, 1509.	1.9	22
61	Allyltrimethylsilane polymers from metallocene catalysts: tacticity and structural characterization. <i>Polymer</i> , 1994, 35, 4648-4655.	1.8	21
62	Crystal structure of syndiotactic poly(4-methyl-1-pentene). <i>Polymer</i> , 1995, 36, 3619-3624.	1.8	21
63	Pseudohexagonal crystallinity and thermal and tensile properties of ethene-propene copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 1095-1103.	2.4	21
64	Chain conformation and unit cell in the crystalline phase of syndiotactic poly(4-methyl-1-pentene). <i>Macromolecules</i> , 1992, 25, 6938-6942.	2.2	20
65	Optoelectronic properties of poly(<i>N</i> -alkenyl-carbazole)s driven by polymer stereoregularity. <i>Journal of Polymer Science Part A</i> , 2018, 56, 242-251.	2.5	20
66	Oscillating Non-Metallocenes from Stereoblock-Isotactic Polypropylene to Isotactic Polypropylene via Zirconium and Hafnium Dithiodiphenolate Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 5219-5223.	1.0	18
67	Structural variations in random copolymers of tetrafluoroethylene with kind and content of comonomer units. <i>Polymer</i> , 1998, 39, 3205-3209.	1.8	17
68	Crystalline phase orientation in biaxially stretched isotactic polypropylene films. <i>Macromolecular Symposia</i> , 2002, 185, 53-63.	0.4	17
69	Ethylene/1,3-butadiene cyclocopolymerization catalyzed by zirconocene systems. <i>European Polymer Journal</i> , 2014, 58, 157-163.	2.6	17
70	Photocatalytic degradation of atrazine under visible light using Gd-doped ZnO prepared by supercritical antisolvent precipitation route. <i>Catalysis Today</i> , 2022, 397-399, 240-248.	2.2	16
71	Random ϵ -lactide/ μ -caprolactone copolymers as drug delivery materials. <i>Journal of Materials Science</i> , 2014, 49, 5986-5996.	1.7	14
72	Highly Isotactic Poly(<i>N</i> -butenyl-carbazole): Synthesis, Characterization, and Optical Properties. <i>Journal of Chemistry</i> , 2016, 2016, 1-8.	0.9	13

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73	X-ray diffraction, conformational analysis and stereoregularity of a crystalline poly(3-methyl-1,4-butadiene). <i>Journal of Applied Polymer Science</i> , 2018, 135, 46256.	1.8	12
74	Ethylene-1,2-cyclopentane random copolymers from cyclocopolymerization of ethylene/1,3-butadiene. <i>Polymer</i> , 2013, 54, 3767-3773.	1.8	12
75	Packaging technology for improving shelf-life of fruits based on a nanoporous crystalline polymer. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46256.	1.3	12
76	Stereoregular polymers with pendant carbazolyl groups: Synthesis, properties and optoelectronic applications. <i>Synthetic Metals</i> , 2018, 246, 185-194.	2.1	12
77	Aluminium complexes of salanol ligands: coordination chemistry and stereoselective lactide polymerization. <i>Chemical Communications</i> , 2020, 56, 13528-13531.	2.2	12
78	Photocatalytic degradation of atrazine by an N-doped TiO ₂ /polymer composite: catalytic efficiency and toxicity evaluation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108167.	3.3	12
79	Semicrystalline proton-conductive membranes with sulfonated amorphous phases. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8038-8044.	3.8	11
80	Molecular mechanics and the polymerization mechanism of homogeneous and heterogeneous Ziegler-Natta catalysts. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993, 69, 237-246.	0.6	10
81	Stereoselective Ring-Opening (Co)polymerization of ϵ -Butyrolactone and δ -Decalactone Using an Yttrium Bis(phenolate) Catalytic System. <i>Frontiers in Chemistry</i> , 2019, 7, 301.	1.8	10
82	Photocatalytic Degradation of Thiachloprid Using Tri-Doped TiO ₂ Photocatalysts: A Preliminary Comparative Study. <i>Catalysts</i> , 2021, 11, 927.	1.6	10
83	Chemical separations by nanoporous crystalline samples of syndiotactic polystyrene. <i>Macromolecular Symposia</i> , 1999, 138, 131-137.	0.4	9
84	The Dual-Stereocontrol Mechanism: Heteroselective Polymerization of rac-Lactide and Syndioselective Polymerization of meso-Lactide by Chiral Aluminum Salan Catalysts. <i>Angewandte Chemie</i> , 2019, 131, 14821-14827.	1.6	9
85	Catalytic system based on recyclable FeO and ZnS semiconductor for UV-promoted degradation of chlorinated organic compounds. <i>Separation and Purification Technology</i> , 2021, 270, 118830.	3.9	9
86	Polymer co-crystalline films for photonics. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	0.9	8
87	Pseudo-Hexagonal Crystallinity in Ethene-Styrene Random Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 382-387.	1.1	7
88	Thermal crosslinking of ethene copolymers containing 1,2-cyclopropane units. <i>Polymer</i> , 2005, 46, 2847-2853.	1.8	7
89	Infrared linear dichroism as a tool to evaluate volatile guest partition between amorphous and nanoporous crystalline polymer phases. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1474-1479.	2.4	7
90	Highly isotactic poly(N-pentenyl-carbazole): A challenging polymer for optoelectronic applications. , 2014, , .		7

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91	Polymerization of rac ϵ -Lactide Using Achiral Iron Complexes: Access to Thermally Stable Stereocomplexes. <i>Angewandte Chemie</i> , 2019, 131, 12715-12719.	1.6	7
92	Copolymerization of L-Lactide and ϵ -Caprolactone promoted by zinc complexes with phosphorus based ligands. <i>Heliyon</i> , 2021, 7, e07630.	1.4	7
93	Polydopamine-Coated Poly-Lactic Acid Aerogels as Scaffolds for Tissue Engineering Applications. <i>Molecules</i> , 2022, 27, 2137.	1.7	7
94	Crystalline Structure of Isotactic Poly(vinylcyclobutane) from Fiber Diffraction Spectra. <i>Macromolecules</i> , 2000, 33, 125-129.	2.2	5
95	Oriented Nanoporous Host \uparrow Phases of Syndiotactic Polystyrene as a Tool for Spectroscopic Investigation of Guest Molecules. <i>Macromolecular Symposia</i> , 2006, 234, 102-110.	0.4	5
96	Sulfonated syndiotactic polystyrene: sorption of ionic liquid in the amorphous phase and of organic guests in the crystalline phase. <i>Polymers for Advanced Technologies</i> , 2013, 24, 56-61.	1.6	5
97	New fluorescence labeling isotactic polypropylenes as a tracer: a proof of concept. <i>Polymer Chemistry</i> , 2022, 13, 2685-2693.	1.9	5
98	Tailoring novel polymer/UTSA-16 hybrid aerogels for efficient CH ₄ /CO ₂ separation. <i>Microporous and Mesoporous Materials</i> , 2022, 341, 112106.	2.2	5
99	Hirudo verbana as a freshwater invertebrate model to assess the effects of polypropylene micro and nanoplastics dispersion in freshwater. <i>Fish and Shellfish Immunology</i> , 2022, 127, 492-507.	1.6	5
100	Potential contact and intraocular lenses based on hydrophilic/hydrophobic sulfonated syndiotactic polystyrene membranes. <i>Journal of King Saud University - Science</i> , 2017, 29, 487-493.	1.6	4
101	Catalytic Composite Systems Based on N-Doped TiO ₂ /Polymeric Materials for Visible-Light-Driven Pollutant Degradation: A Mini Review. <i>Photochem</i> , 2021, 1, 330-344.	1.3	4
102	Stereogradient Poly(Lactic Acid) from <i>meso</i> - ϵ -Lactide/ ϵ -Lactide Mixtures. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	4
103	Clathrates with tetrahydrofuran of styrene-p-methyl styrene co-syndiotactic copolymers. <i>Macromolecular Symposia</i> , 2001, 166, 165-172.	0.4	3
104	Infrared spectra and thermal reactivity of ethene copolymers containing 1,2-cyclopropane units. <i>Polymer</i> , 2006, 47, 2274-2279.	1.8	3
105	Nanoporous polymeric aerogels \uparrow -based structured photocatalysts for the removal of organic pollutant from water under visible or solar light. , 2020, , 99-120.		3
106	Nanoporous \uparrow -Crystalline Poly(2,6-dimethyl-1,4-phenylene)oxide Aerogels with Selectively Sulfonated Amorphous Phase for Fast VOC Sorption from Water. <i>Materials</i> , 2022, 15, 1947.	1.3	3
107	Experimental and theoretical assignments of stereoregular poly(N-pentenylcarbazole) FT-IR spectra. <i>Vibrational Spectroscopy</i> , 2019, 101, 64-70.	1.2	2
108	Sul polimorfismo del poli(4-metil-1-pentene) isotattico. <i>Rendiconti Lincei</i> , 1993, 4, 99-106.	1.0	1

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109	Drugs and precursor sensing by complementing low cost multiple techniques: overview of the European FP7 project CUSTOM. , 2012, , .		1
110	Nanoporous Semicrystalline Syndiotactic Polystyrene with Sulfonated Amorphous Phase, for a Fast and Efficient Removal of VOC Pollutant Traces From Water. Macromolecular Symposia, 2016, 359, 16-23.	0.4	1
111	Group 4 Metal Complexes of Phenylene-Salalen Ligands in rac -Lactide Polymerization Giving High Molecular Weight Stereoblock Poly(lactic acid). Chemistry - A European Journal, 2017, 23, 11454-11454.	1.7	1
112	Thermoplastic Molecular Sieves: New Polymeric Materials for Molecular Packaging. ACS Symposium Series, 2005, , 171-186.	0.5	0
113	Back Cover: Salalen Titanium Complexes in the Highly Isospecific Polymerization of 1-Hexene and Propylene (Angew. Chem. Int. Ed. 15/2011). Angewandte Chemie - International Edition, 2011, 50, 3574-3574.	7.2	0
114	The 60th Birthday of Prof. Gaetano Guerra. Macromolecular Chemistry and Physics, 2013, 214, 1883-1884.	1.1	0
115	Toward a Compact Instrument for Detecting Drug Precursors in Different Environments. Lecture Notes in Electrical Engineering, 2014, , 89-93.	0.3	0