Valentina Villari

List of Publications by Year
in descending order

126	3,336	134610	206121
papers	citations	34 h-index	51 g-index

129	129	129	4534
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	KLVFF oligopeptide-decorated amphiphilic cyclodextrin nanomagnets for selective amyloid beta recognition and fishing. Journal of Colloid and Interface Science, 2022, 613, 814-826.	5.0	5
2	Porphyrin/carbon nanodot supramolecular complexes and their optical properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129436.	2.3	2
3	Porphyrin-Based Supramolecular Flags in the Thermal Gradientsâ€™ Wind: What Breaks the Symmetry, How and Why. Nanomaterials, 2021, 11, 1673.	1.9	7
4	Water-Soluble Non-Ionic PEGylated Porphyrins: A Versatile Category of Dyes for Basic Science and Applications. Topics in Current Chemistry, 2021, 379, 35.	3.0	5
5	Light-Triggered Polymeric Nanobombs for Targeted Cell Death. ACS Applied Nano Materials, 2020, 3, 1950-1960.	2.4	8
6	En Route to a Chiral Melanin: The Dynamic â€œFrom-Imprinted-to-Templateâ€•Supramolecular Role of Porphyrin Hetero-Aggregates During the Oxidative Polymerization of L-DOPA. Frontiers in Chemistry, 2020, 8, 616961.	1.8	5
7	Supramolecular Structures Formed in Water by Graphene Oxide and Nonionic PEGylated Porphyrin: Interaction Mechanisms and Fluorescence Quenching Effects. Journal of Physical Chemistry C, 2019, 123, 25977-25984.	1.5	12
8	Tuning the aggregation of an amphiphilic anionic calix[5]arene by selective hostâ€“guest interactions with bola-type dications. New Journal of Chemistry, 2019, 43, 7628-7635.	1.4	14
9	Nonâ€invasive optical method for realâ€time assessment of intracorneal riboflavin concentration and efficacy of corneal crossâ€linking. Journal of Biophotonics, 2018, 11, e201800028.	1.1	13
10	Assessment of transâ€scleral iontophoresis delivery of lutein to the human retina. Journal of Biophotonics, 2018, 11, e201700095.	1.1	8
11	Ring/Chain Morphology Control in Overallâ€Neutral, Internally Ionâ€Paired Supramolecular Polymers. Chemistry - A European Journal, 2018, 24, 1097-1103.	1.7	7
12	Interpenetrating Polymer Network Microgels in Water: Effect of Composition on the Structural Properties and Electrosteric Interactions. ChemPhysChem, 2018, 19, 2894-2901.	1.0	12
13	Optical Aggregation of Gold Nanoparticles for SERS Detection of Proteins and Toxins in Liquid Environment: Towards Ultrasensitive and Selective Detection. Materials, 2018, 11, 440.	1.3	42
14	Gold nanoparticles functionalized with PEGylate uncharged porphyrins. Dyes and Pigments, 2017, 141, 225-234.	2.0	18
15	Poly(carboxylic acid)-Cyclodextrin/Anionic Porphyrin Finished Fabrics as Photosensitizer Releasers for Antimicrobial Photodynamic Therapy. Biomacromolecules, 2017, 18, 1134-1144.	2.6	49
16	Alteration of neurotransmission and skeletogenesis in sea urchin Arbacia lixula embryos exposed to copper oxide nanoparticles. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 199, 20-27.	1.3	20
17	Assessment of stromal riboflavin concentrationâ€“depth profile in nanotechnology-based transepithelial corneal crosslinking. Journal of Cataract and Refractive Surgery, 2017, 43, 680-686.	0.7	10
18	A novel potential nanophototherapeutic based on the assembly of an amphiphilic cationic Î²-cyclodextrin and an anionic porphyrin. Journal of Porphyrins and Phthalocyanines, 2017, 21, 398-405.	0.4	11

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19	A Metalloporphyrin-Peptide Conjugate as an Effective Inhibitor of Amyloid-Î² Peptide Fibrillation and Cytotoxicity. ChemistrySelect, 2017, 2, 9122-9129.	0.7	15
20	All-Optical Method to Assess Stromal Concentration of Riboflavin in Conventional and Accelerated UV-A Irradiation of the Human Cornea. , 2016, 57, 476.		33
21	Vortexes tune the chirality of graphene oxide and its non-covalent hosts. Chemical Communications, 2016, 52, 13094-13096.	2.2	16
22	SERS detection of Biomolecules at Physiological pH via aggregation of Gold Nanorods mediated by Optical Forces and Plasmonic Heating. Scientific Reports, 2016, 6, 26952.	1.6	141
23	Hydrodynamic and Thermophoretic Effects on the Supramolecular Chirality of Pyreneâ€Derived Nanosheets. Chemistry - A European Journal, 2015, 21, 9505-9513.	1.7	17
24	Ultraviolet A: Visible spectral absorbance of the human cornea after transepithelial soaking with dextran-enriched and dextran-free riboflavin 0.1% ophthalmic solutions. Journal of Cataract and Refractive Surgery, 2015, 41, 2283-2290.	0.7	16
25	Self-assembly of amphiphilic anionic calix[4]arenes and encapsulation of poorly soluble naproxen and flurbiprofen. Organic and Biomolecular Chemistry, 2015, 13, 6468-6473.	1.5	23
26	Hierarchical Effect behind the Supramolecular Chirality of Silver(I)â€“Cysteine Coordination Polymers. Journal of Physical Chemistry B, 2015, 119, 4898-4904.	1.2	28
27	New Evidence about the Spontaneous Symmetry Breaking: Action of an Asymmetric Weak Heat Source. Journal of Physical Chemistry B, 2015, 119, 12345-12353.	1.2	20
28	Control of the Structural Stability of Î±-Crystallin under Thermal and Chemical Stress: The Role of Carnosine. Journal of Physical Chemistry B, 2014, 118, 13770-13776.	1.2	6
29	Supramolecular chirality induced by a weak thermal force. Soft Matter, 2014, 10, 44-47.	1.2	29
30	A star polymer based on a polyethylene glycol with a porphyrinic core as a photosensitizing agent for application in photodynamic therapy: tests in vitro on human erythrocytes. RSC Advances, 2014, 4, 19389.	1.7	12
31	On the ergodicity of supercooled molecular glass-forming liquids at the dynamical arrest: the o-terphenyl case. Scientific Reports, 2014, 4, 3747.	1.6	25
32	Nanostructures of Cationic Amphiphilic Cyclodextrin Complexes with DNA. Biomacromolecules, 2013, 14, 811-817.	2.6	50
33	Supramolecular hybrid assemblies based on gold nanoparticles, amphiphilic cyclodextrin and porphyrins with combined phototherapeutic action. RSC Advances, 2013, 3, 5607.	1.7	21
34	The fragile to strong dynamical crossover in supercooled liquids. The o-terphenyl case and its ergodicity at the dynamical arrest. , 2013, , .		2
35	Spontaneous self-assembly of water-soluble porphyrins having poly(ethylene glycol) as branches: Dependence of aggregate properties from the building block architecture. Chemical Physics, 2012, 409, 23-31.	0.9	21
36	Structural and spectroscopic features of lutein/butanoyl-Î²-cyclodextrin nanoassemblies. Journal of Pharmaceutical and Biomedical Analysis, 2012, 71, 214-218.	1.4	20

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37	Role of the hydrogen-bond in porphyrin J-aggregates. RSC Advances, 2012, 2, 12989.	1.7	43
38	Self-Assembled Calixarene Derivative as a Supramolecular Polymer. Journal of Physical Chemistry B, 2012, 116, 5537-5541.	1.2	20
39	Modulated heterodyne light scattering set-up for measuring long relaxation time at small and wide angle. Review of Scientific Instruments, 2012, 83, 083102.	0.6	2
40	Reading of Protein Surfaces in the Native State at Micromolar Concentrations by a Chirogenetic Porphyrin Probe. Chemistry - A European Journal, 2012, 18, 12452-12457.	1.7	19
41	Scattering enhancement in colloidal metalâ€“organic composite aggregates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 413, 13-16.	2.3	3
42	Waterâ€soluble star polymers with a phthalocyanine as the core and poly(ethylene glycol) chains as branches. Journal of Applied Polymer Science, 2012, 126, 1359-1368.	1.3	10
43	Amino acids recognition by water-soluble uncharged porphyrin tweezers: Spectroscopic evidences in high optical density solutions. Chemical Physics, 2012, 402, 118-123.	0.9	10
44	Supramolecular chirality transfer to large random aggregates of porphyrins. Chemical Communications, 2011, 47, 6045.	2.2	18
45	Effective cell uptake of nanoassemblies of a fluorescent amphiphilic cyclodextrin and an anionic porphyrin. Chemical Communications, 2011, 47, 9140.	2.2	32
46	Optical Enhancement and Structural Properties of a Hybrid Organicâ"Inorganic Ternary Nanocomposite. Journal of Physical Chemistry C, 2011, 115, 5435-5439.	1.5	18
47	Amphiphilic Amylose-g-poly(meth)acrylate Copolymers through â€œClickâ€•onto Grafting Method. Biomacromolecules, 2011, 12, 388-398.	2.6	31
48	Scaling the Chirality in Porphyrin J-Nanoaggregates. Journal of the American Chemical Society, 2011, 133, 765-767.	6.6	66
49	Cell volume regulation following hypotonic shock in hepatocytes isolated from Sparus aurata. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 158, 143-149.	0.8	17
50	Anionâ€Assisted Supramolecular Polymerization: From Achiral ABâ€Type Monomers to Chiral Assemblies. Angewandte Chemie - International Edition, 2011, 50, 11956-11961.	7.2	60
51	Sequence, Stoichiometry, and Dimensionality Control in Porphyrin/Bis-calix[4]arene Self-Assemblies in Aqueous Solution. Chemistry - A European Journal, 2010, 16, 10439-10446.	1.7	27
52	Amphiphilic Cyclodextrins as Nanocarriers of Genistein: A Spectroscopic Investigation Pointing Out the Structural Properties of the Host/Drug Complex System. Journal of Pharmaceutical Sciences, 2010, 99, 3141-3149.	1.6	22
53	Design of photosensitizer/cyclodextrin nanoassemblies: spectroscopy, intracellular delivery and photodamage. Journal of Porphyrins and Phthalocyanines, 2010, 14, 661-677.	0.4	19
54	Aggregation Properties of the Peptide Fragments Derived from the 17-29 Region of the Human and Rat IAPP: A Comparative Study with Two PEG-Conjugated Variants of the Human Sequence. Journal of Physical Chemistry B, 2010, 114, 705-713.	1.2	12

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55	Evidence of repulsive Yukawa tail for copolymer micelles in room temperature ionic liquid. Soft Matter, 2010, 6, 1793.	1.2	4
56	The intracellular effects of non-ionic amphiphilic cyclodextrin nanoparticles in the delivery of anticancer drugs. Biomaterials, 2009, 30, 374-382.	5.7	133
57	Self-Organizing Functional Materials via Ionic Self Assembly: Porphyrins H- and J-Aggregates on Synthetic Chrysotile Nanotubes. Journal of the American Chemical Society, 2009, 131, 6920-6921.	6.6	60
58	Surfactant-like Behavior of Short-Chain Alcohols in Porphyrin Aggregation. Journal of Physical Chemistry B, 2009, 113, 11173-11178.	1.2	26
59	Light Scattering as Spectroscopic Tool for the Study of Disperse Systems Useful in Pharmaceutical Sciences. Journal of Pharmaceutical Sciences, 2008, 97, 1703-1730.	1.6	44
60	Supramolecular Porphyrin Polymers in Solution and at the Solidâ^'Liquid Interface. Nano Letters, 2008, 8, 253-259.	4.5	95
61	Amphiphilic Cyclodextrins as Capping Agents for Gold Colloids:â€‰ A Spectroscopic Investigation with Perspectives in Photothermal Therapy. Journal of Physical Chemistry C, 2008, 112, 6764-6769.	1.5	20
62	Evidence of the early stage of porphyrin aggregation by enhanced Raman scattering and fluorescence spectroscopy. Physical Review E, 2007, 76, 011404.	0.8	18
63	Role of the Coulombic Interaction in Ligand-Induced Biopolymer Aggregation. Journal of Physical Chemistry B, 2007, 111, 1231-1237.	1.2	3
64	Uncharged water-soluble porphyrin tweezers as a supramolecular sensor for Î±-amino acids. Nanotechnology, 2007, 18, 375503.	1.3	22
65	Counterionâ€Dependent Protonâ€Driven Selfâ€Assembly of Linear Supramolecular Oligomers Based on Aminoâ€Calix[5]arene Building Blocks. Chemistry - A European Journal, 2007, 13, 8164-8173.	1.7	84
66	Focus on the aggregation processes of Photosystem II complexes. Bioelectrochemistry, 2007, 70, 33-38.	2.4	6
67	The enhancement of isoflavones water solubility by complexation with modified cyclodextrins: A spectroscopic investigation with implications in the pharmaceutical analysis. Journal of Pharmaceutical and Biomedical Analysis, 2007, 44, 980-984.	1.4	62
68	From Fractal to Nanorod Porphyrin J-Aggregates. Concentration-Induced Tuning of the Aggregate Size. Journal of Physical Chemistry B, 2006, 110, 8289-8295.	1.2	113
69	Probing specific protein recognition by size-controlled glycosylated cyclodextrin nanoassemblies. New Journal of Chemistry, 2006, 30, 1662.	1.4	40
70	Vesicle-to-micelle transition in aqueous solutions of amphiphilic calixarene derivatives. Physical Review E, 2006, 73, 051904.	0.8	47
71	Study of the Aggregation of Insulin Glargine by Light Scattering. Journal of Pharmaceutical Sciences, 2006, 95, 1029-1034.	1.6	19
72	Cyclodextrin nanoaggregates and their assembly with protein: a spectroscopic investigation. Nanotechnology, 2006, 17, 3239-3244.	1.3	18

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73	The rutin/Î²-cyclodextrin interactions in fully aqueous solution: spectroscopic studies and biological assays. Journal of Pharmaceutical and Biomedical Analysis, 2005, 36, 1019-1027.	1.4	151
74	The inclusion complexes of hesperetin and its 7-rhamnoglucoside with (2-hydroxypropyl)-Î²-cyclodextrin. Journal of Pharmaceutical and Biomedical Analysis, 2005, 39, 572-580.	1.4	80
75	Light scattering enhancement in an aqueous solution of spermine-induced fractalJ-aggregate composite. Physical Review E, 2005, 72, 050401.	0.8	20
76	Interactions between water soluble porphyrin-based star polymer and amino acids: Spectroscopic evidence of molecular binding. Physical Review E, 2005, 71, 021915.	0.8	34
77	Uncharged Water-Soluble Co(II)â˜Porphyrin:Â A Receptor for Aromatic Î±-Amino Acids. Journal of Physical Chemistry B, 2005, 109, 18645-18651.	1.2	39
78	Amphiphilic Cyclodextrin Carriers Embedding Porphyrins:Â Charge and Size Modulation of Colloidal Stability in Heterotopic Aggregates. Journal of Physical Chemistry B, 2005, 109, 7258-7265.	1.2	43
79	Aggregation Behavior of Tetrakis(4-sulfonatophenyl)porphyrin in AOT/Water/Decane Microemulsions. Journal of Physical Chemistry B, 2005, 109, 12086-12092.	1.2	52
80	Large structures in diblock copolymer micellar solution. Physical Review E, 2004, 70, 021402.	0.8	27
81	Nanosized Porphyrin J-Aggregates in Water/AOT/Decane Microemulsions. Journal of Physical Chemistry B, 2004, 108, 9054-9059.	1.2	63
82	Novel Heterotopic Colloids of Anionic Porphyrins Entangled in Cationic Amphiphilic Cyclodextrins: Spectroscopic Investigation and Intracellular Delivery. Chemistry - A European Journal, 2003, 9, 5762-5769.	1.7	79
83	Aggregation effects in aqueous solutions of Star-polymers by spectroscopic investigations. Journal of Molecular Structure, 2003, 651-653, 675-681.	1.8	8
84	Aggregation Phenomena in Aqueous Solutions of Uncharged Star Polymers with a Porphyrin Core. Journal of Physical Chemistry B, 2003, 107, 5095-5100.	1.2	35
85	Structural Rearrangements in 5,10,15,20-Tetrakis(4-sulfonatophenyl)porphyrin J-Aggregates under Strongly Acidic Conditions. Journal of Physical Chemistry B, 2003, 107, 8765-8771.	1.2	95
86	Spectroscopic evidence of aggregation processes in porphyrin-based star-polymers in aqueous solutions. Molecular Physics, 2003, 101, 1517-1526.	0.8	6
87	Graft polymer solutions as sticky hard-sphere colloids. Physical Review E, 2003, 67, 041401.	0.8	5
88	Î±,Î±-Trehalose-Water Solutions VI. A View of the Structural and Dynamical Properties of OÎ²G Micelles in the Presence of Trehalose. Journal of Physical Chemistry B, 2002, 106, 6954-6960.	1.2	5
89	Effect of the monomer structure on the dynamics of semidilute polyalkylmethacrylate solutions: A quasielastic light and neutron scattering investigation. Journal of Chemical Physics, 2002, 116, 427.	1.2	5
90	Neutron-scattering study of the vibrational behavior of trehalose aqueous solutions. Applied Physics A: Materials Science and Processing, 2002, 74, s452-s453.	1.1	6

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91	Diffusive Dynamics of Water in the Presence of Homologous Disaccharides:â€‰ A Comparative Study by Quasi Elastic Neutron Scattering. IV.. Journal of Physical Chemistry B, 2001, 105, 1851-1855.	1.2	75
92	Hydroxyl end groups influence in vibrational and transport properties in polymer/monomer solutions: the PEO/EG case. Molecular Physics, 2001, 99, 1525-1533.	0.8	2
93	Diffusive dynamics: self vs. collective behaviour. Journal of Molecular Liquids, 2001, 93, 139-149.	2.3	5
94	Quasielastic neutron scattering study on disaccharide aqueous solutions. Physica B: Condensed Matter, 2001, 301, 130-133.	1.3	9
95	Solute-solvent interaction strength of disaccharide aqueous solutions: Trehalose primate. AIP Conference Proceedings, 2000, , .	0.3	0
96	Anomalous conformational properties of PEO in H2O and D2O by SANS, PCS and Raman scattering. Journal of Applied Crystallography, 2000, 33, 709-713.	1.9	9
97	Effects of isotopic substitution on the conformational properties of polymeric aqueous solutions. Physica B: Condensed Matter, 2000, 276-278, 332-333.	1.3	2
98	Molecular dynamics of disaccharides by inelastic light scattering. Physica B: Condensed Matter, 2000, 276-278, 526-527.	1.3	3
99	QENS and PCS study of aqueous BSAâ€“PEO `crowdedâ€™ solutions. Physica B: Condensed Matter, 2000, 276-278, 524-525.	1.3	6
100	PolyEthylene oxide: a review of experimental findings by spectroscopic techniques. Journal of Molecular Liquids, 2000, 87, 21-68.	2.3	23
101	Slow dynamics features in aqueous solutions of high molecular weight Poly(Ethylene Oxide). AIP Conference Proceedings, 2000, , .	0.3	1
102	Influence of trehalose on conformational and dynamical properties of Poly(Ethylene Oxide) in water. AIP Conference Proceedings, 2000, , .	0.3	0
103	Neutron spectroscopy of hydrated disaccharides : Trehalose vs. sucrose. European Physical Journal Special Topics, 2000, 10, Pr7-333-Pr7-336.	0.2	0
104	On the aggregation of Poly(Ethylene Oxide) in water. AIP Conference Proceedings, 2000, , .	0.3	1
105	Structural and dynamic effects H-bond induced in monomer-polymer solutions. AIP Conference Proceedings, 2000, , .	0.3	2
106	Mechanical properties characterization of Sicilian lithoid materials by computer-aided speckle interferometry. AIP Conference Proceedings, 2000, , .	0.3	0
107	Vibrational dynamics of water molecules confined within trehalose H-bond imposed networks : A Raman response. European Physical Journal Special Topics, 2000, 10, Pr7-329-Pr7-332.	0.2	1
108	Effect of H-bond active sites on transport properties of poly(ethylene oxide) dissolved in its monomers: Shear viscosity and diffusion coefficient studies. Journal of Chemical Physics, 2000, 112, 5205-5211.	1.2	4

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109	Dynamical properties of highly entangled polyalkylmethacrylate solutions : A comparative study. European Physical Journal Special Topics, 2000, 10, Pr7-321-Pr7-324.	0.2	0
110	Can the isotopic HleftrightarrowD substitution affect the conformational properties of polymeric aqueous solutions? The poly(ethylene oxide)-water case. Journal of Physics Condensed Matter, 1999, 11, 6079-6098.	0.7	15
111	The fragile character and structure-breaker role of alpha,alpha-trehalose: viscosity and Raman scattering findings. Journal of Physics Condensed Matter, 1999, 11, 3823-3832.	0.7	43
112	Experimental simulation of macromolecules in trehalose aqueous solutions: A photon correlation spectroscopy study. Journal of Chemical Physics, 1999, 111, 9086-9092.	1.2	43
113	Swelling processes in aqueous polymer solutions by PCS and Raman scattering. Journal of Molecular Structure, 1999, 482-483, 503-507.	1.8	7
114	Suspended Life in Biological Systems Fragility and Complexity. Annals of the New York Academy of Sciences, 1999, 879, 224-227.	1.8	3
115	Possibilities and limits of photon correlation spectroscopy in determining polymer molecular weight distributions. Macromolecular Chemistry and Physics, 1999, 200, 1134-1142.	1.1	6
116	The puzzle of poly(ethylene oxide) aggregation in water: Experimental findings. Journal of Chemical Physics, 1999, 110, 1801-1806.	1.2	78
117	Experimental Evidence of Slow Dynamics in Semidilute Polymer Solutions. Macromolecules, 1999, 32, 1128-1133.	2.2	37
118	Transport phenomena and anomalous glass-forming behaviour in Î±, Î±-trehalose aqueous solutions. Molecular Physics, 1999, 96, 381-387.	0.8	15
119	EG-PEO and EG homologue-PEO systems: An example of different solute-solvent interactions depending on monomer end groups. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1877-1880.	0.6	2
120	Transport phenomena and anomalous glass-forming behaviour in alpha, alpha-trehalose aqueous solutions. Molecular Physics, 1999, 96, 381-387.	0.8	31
121	Î±,Î±-Trehaloseâ^'Water Solutions. II. Influence of Hydrogen Bond Connectivity on Transport Propertiesâ€. Journal of Physical Chemistry B, 1998, 102, 2060-2063.	1.2	48
122	Hydration and transport properties of aqueous solutions of Î±-Î±-trehalose. Journal of Chemical Physics, 1998, 109, 1170-1174.	1.2	42
123	Conformational distribution of poly(ethylene oxide) in molten phase and in aqueous solution by quasi-elastic and inelastic light scattering. Journal of Physics Condensed Matter, 1998, 10, 10141-10157.	0.7	34
124	Fragile-like behaviour and H-bond interactions of the glass-forming waterâ€"trehalose system. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 655-661.	0.6	5
125	Diffusive Properties of Î±,Î±-Trehalose-Water Solutions. Progress of Theoretical Physics Supplement, 1997, 126, 195-200.	0.2	16
126	Quasi-elastic light scattering in polymer-containing microemulsion. Journal of Molecular Structure, 1996, 383, 171-175.	1.8	10