Giuseppe Cavallaro

List of Publications by Citations

119 papers	4,826 citations	41 h-index	66 g-index
125 ext. papers	5,736 ext. citations	5 avg, IF	6.38 L-index

#	Paper	IF	Citations
119	An assembly of organic-inorganic composites using halloysite clay nanotubes. *Current Opinion in Colloid and Interface Science*, **2018**, 35, 42-50	7.6	239
118	Effect of Morphology and Size of Halloysite Nanotubes on Functional Pectin Bionanocomposites for Food Packaging Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 17476-17488	9.5	223
117	Films of Halloysite Nanotubes Sandwiched between Two Layers of Biopolymer: From the Morphology to the Dielectric, Thermal, Transparency, and Wettability Properties. *Journal of Physical Chemistry C*, **2011**, 115, 20491-20498	3.8	145
116	Dispersions of nanoclays of different shapes into aqueous and solid biopolymeric matrices. Extended physicochemical study. *Langmuir*, **2011**, 27, 1158-67	4	145
115	Halloysite nanotubes loaded with peppermint essential oil as filler for functional biopolymer film. *Carbohydrate Polymers*, **2016**, 152, 548-557	10.3	139
114	Nanohydrogel Formation within the Halloysite Lumen for Triggered and Sustained Release. *ACS Applied Materials & Interfaces*, **2018**, 10, 8265-8273	9.5	135
113	A structural comparison of halloysite nanotubes of different origin by Small-Angle Neutron Scattering (SANS) and Electric Birefringence. *Applied Clay Science*, **2018**, 160, 71-80	5.2	133
112	Modified halloysite nanotubes: nanoarchitectures for enhancing the capture of oils from vapor and liquid phases. *ACS Applied Materials & Interfaces*, **2014**, 6, 606-12	9.5	132
111	Exploiting the Colloidal Stability and Solubilization Ability of Clay Nanotubes/Ionic Surfactant Hybrid Nanomaterials. *Journal of Physical Chemistry C*, **2012**, 116, 21932-21938	3.8	129
110	Direct chemical grafted curcumin on halloysite nanotubes as dual-responsive prodrug for pharmacological applications. *Colloids and Surfaces B: Biointerfaces*, **2016**, 140, 505-513	6	120
109	Polysaccharides/Halloysite nanotubes for smart bionanocomposite materials. *Carbohydrate Polymers*, **2020**, 245, 116502	10.3	102
108	Biopolymer-Targeted Adsorption onto Halloysite Nanotubes in Aqueous Media. *Langmuir*, **2017**, 33, 3317-3323	4	95
107	Effect of the Biopolymer Charge and the Nanoclay Morphology on Nanocomposite Materials. *Industrial & Engineering Chemistry Research*, **2016**, 55, 7373-7380	3.9	94
106	Why does vacuum drive to the loading of halloysite nanotubes? The key role of water confinement. *Journal of Colloid and Interface Science*, **2019**, 547, 361-369	9.3	92
105	Hydrophobically Modified Halloysite Nanotubes as Reverse Micelles for Water-in-Oil Emulsion. *Langmuir*, **2015**, 31, 7472-8	4	91
104	Sustainable nanocomposites based on halloysite nanotubes and pectin/polyethylene glycol blend. *Polymer Degradation and Stability*, **2013**, 98, 2529-2536	4.7	88
103	Biocompatible Poly(N-isopropylacrylamide)-halloysite Nanotubes for Thermoresponsive Curcumin Release. *Journal of Physical Chemistry C*, **2015**, 119, 8944-8951	3.8	86

102	Halloysite Nanotubes: Controlled Access and Release by Smart Gates. *Nanomaterials*, **2017**, 7,	5.4	82
101	Layered composite based on halloysite and natural polymers: a carrier for the pH controlled release of drugs. *New Journal of Chemistry*, **2019**, 43, 10887-10893	3.6	79
100	Alginate gel beads filled with halloysite nanotubes. *Applied Clay Science*, **2013**, 72, 132-137	5.2	78
99	Multicavity halloysite-amphiphilic cyclodextrin hybrids for co-delivery of natural drugs into thyroid cancer cells. *Journal of Materials Chemistry B*, **2015**, 3, 4074-4081	7.3	72
98	Design of PNIPAAM covalently grafted on halloysite nanotubes as a support for metal-based catalysts. *RSC Advances*, **2016**, 6, 55312-55318	3.7	71
97	Eco-friendly functionalization of natural halloysite clay nanotube with ionic liquids by microwave irradiation for Suzuki coupling reaction. *Journal of Organometallic Chemistry*, **2014**, 749, 410-415	2.3	71
96	Functionalized halloysite multivalent glycocluster as a new drug delivery system. *Journal of Materials Chemistry B*, **2014**, 2, 7732-7738	7.3	70
95	Effects of halloysite content on the thermo-mechanical performances of composite bioplastics. *Applied Clay Science*, **2020**, 185, 105416	5.2	69
94	Chemical modification of halloysite nanotubes for controlled loading and release. *Journal of Materials Chemistry B*, **2018**, 6, 3415-3433	7.3	67
93	Halloysite nanotube with fluorinated lumen: non-foaming nanocontainer for storage and controlled release of oxygen in aqueous media. *Journal of Colloid and Interface Science*, **2014**, 417, 66-71	9.3	63
92	Orientation of charged clay nanotubes in evaporating droplet meniscus. *Journal of Colloid and Interface Science*, **2015**, 440, 68-77	9.3	62
91	Halloysite nanotubes for efficient loading, stabilization and controlled release of insulin. *Journal of Colloid and Interface Science*, **2018**, 524, 156-164	9.3	62
90	Halloysite nanotubes sandwiched between chitosan layers: novel bionanocomposites with multilayer structures. *New Journal of Chemistry*, **2018**, 42, 8384-8390	3.6	60
89	Halloysite Nanotubes Loaded with Calcium Hydroxide: Alkaline Fillers for the Deacidification of Waterlogged Archeological Woods. *ACS Applied Materials & Interfaces*, **2018**, 10, 27355-27364	9.5	59
88	Composite films of natural clay nanotubes with cellulose and chitosan. *Green Materials*, **2014**, 2, 232-242	3.2	58
87	Structure of Hybrid Materials Based on Halloysite Nanotubes Filled with Anionic Surfactants. *Journal of Physical Chemistry C*, **2016**, 120, 13492-13502	3.8	56
86	Halloysite/Keratin Nanocomposite for Human Hair Photoprotection Coating. *ACS Applied Materials & Interfaces*, **2020**, 12, 24348-24362	9.5	55
85	Thermal and dynamic mechanical properties of beeswax-halloysite nanocomposites for consolidating waterlogged archaeological woods. *Polymer Degradation and Stability*, **2015**, 120, 220-225	4.7	54

84	Selective Functionalization of Halloysite Cavity by Click Reaction: Structured Filler for Enhancing Mechanical Properties of Bionanocomposite Films. *Journal of Physical Chemistry C*, **2014**, 118, 15095-15101	3.8	54
83	Nanocomposites based on esterified colophony and halloysite clay nanotubes as consolidants for waterlogged archaeological woods. *Cellulose*, **2017**, 24, 3367-3376	5.5	52
82	Palladium supported on Halloysite-triazolium salts as catalyst for ligand free Suzuki cross-coupling in water under microwave irradiation. *Journal of Molecular Catalysis A*, **2015**, 408, 12-19		50
81	Pickering Emulsion Gels Based on Halloysite Nanotubes and Ionic Biopolymers: Properties and Cleaning Action on Marble Surface. *ACS Applied Nano Materials*, **2019**, 2, 3169-3176	5.6	45
80	Polyethylene glycol/clay nanotubes composites. *Journal of Thermal Analysis and Calorimetry*, **2013**, 112, 383-389	4.1	45
79	Halloysite Nanotubes: Interfacial Properties and Applications in Cultural Heritage. *Langmuir*, **2020**, 36, 3677-3689	4	43
78	Selective adsorption of oppositely charged PNIPAAM on halloysite surfaces: a route to thermo-responsive nanocarriers. *Nanotechnology*, **2018**, 29, 325702	3.4	41
77	Kinetic and equilibrium study for cadmium and copper removal from aqueous solutions by sorption onto mixed alginate/pectin gel beads. *Journal of Environmental Chemical Engineering*, **2013**, 1, 1252-1260	6.8	40
76	Chitosan-based smart hybrid materials: a physico-chemical perspective. *Journal of Materials Chemistry B*, **2021**, 9, 594-611	7.3	40
75	Coffee grounds as filler for pectin: Green composites with competitive performances dependent on the UV irradiation. *Carbohydrate Polymers*, **2017**, 170, 198-205	10.3	39
74	Core/Shell Gel Beads with Embedded Halloysite Nanotubes for Controlled Drug Release. *Coatings*, **2019**, 9, 70	2.9	39
73	Colloidal stability of halloysite clay nanotubes. *Ceramics International*, **2019**, 45, 2858-2865	5.1	39
72	Halloysite nanotubes as sustainable nanofiller for paper consolidation and protection. *Journal of Thermal Analysis and Calorimetry*, **2014**, 117, 1293-1298	4.1	37
71	Clay-based drug-delivery systems: what does the future hold?. *Therapeutic Delivery*, **2017**, 8, 633-646	3.8	37
70	Pickering Emulsions Based on Wax and Halloysite Nanotubes: An Ecofriendly Protocol for the Treatment of Archeological Woods. *ACS Applied Materials & Interfaces*, **2021**, 13, 1651-1661	9.5	37
69	Halloysite nanotubes-carbon dots hybrids multifunctional nanocarrier with positive cell target ability as a potential non-viral vector for oral gene therapy. *Journal of Colloid and Interface Science*, **2019**, 552, 236-246	9.3	36
68	Halloysite Nanotubes for Cleaning, Consolidation and Protection. *Chemical Record*, **2018**, 18, 940-949	6.6	36
67	Pd supported on magnetic carbon coated halloysite as hydrogenation catalyst: Study of the contribution of carbon layer and magnetization to the catalytic activity. *Applied Clay Science*, **2019**, 182, 105299	5.2	32

66	Ecocompatible Halloysite/Cucurbit[8]uril Hybrid as Efficient Nanosponge for Pollutants Removal. *ChemistrySelect*, **2016**, 1, 1773-1779	1.8	31
65	Hydroxypropyl Cellulose Films Filled with Halloysite Nanotubes/Wax Hybrid Microspheres. *Industrial & Engineering Chemistry Research*, **2021**, 60, 1656-1665	3.9	31
64	Halloysite Nanotubes Coated by Chitosan for the Controlled Release of Khellin. *Polymers*, **2020**, 12,	4.5	30
63	Organic-nanoclay composite materials as removal agents for environmental decontamination.. *RSC Advances*, **2019**, 9, 40553-40564	3.7	29
62	Preparation and characterization of bio-organoclays using nonionic surfactant. *Adsorption*, **2016**, 22, 105-116	2.6	28
61	Stability of Halloysite, Imogolite, and Boron Nitride Nanotubes in Solvent Media. *Applied Sciences (Switzerland)*, **2018**, 8, 1068	2.6	28
60	Steric stabilization of modified nanoclays triggered by temperature. *Journal of Colloid and Interface Science*, **2016**, 461, 346-351	9.3	26
59	Selective Cytotoxic Activity of Prodigiosin@halloysite Nanoformulation. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 424	5.8	25
58	A comparative thermogravimetric study of waterlogged archaeological and sound woods. *Journal of Thermal Analysis and Calorimetry*, **2011**, 104, 451-457	4.1	25
57	Safely Dissolvable and Healable Active Packaging Films Based on Alginate and Pectin. *Polymers*, **2019**, 11,	4.5	23
56	Aqueous phase/nanoparticles interface: hydroxypropyl cellulose adsorption and desorption triggered by temperature and inorganic salts. *Soft Matter*, **2012**, 8, 3627	3.6	22
55	Multifunctional Carrier Based on Halloysite/Laponite Hybrid Hydrogel for Kartogenin Delivery. *ACS Medicinal Chemistry Letters*, **2019**, 10, 419-424	4.3	22
54	Halloysite nanotubes filled with MgO for paper reinforcement and deacidification. *Applied Clay Science*, **2021**, 213, 106231	5.2	21
53	Halloysite nanotubes with fluorinated cavity: an innovative consolidant for paper treatment. *Clay Minerals*, **2016**, 51, 445-455	1.3	18
52	Preparation of palladated porous nitrogen-doped carbon using halloysite as porogen: disclosing its utility as a hydrogenation catalyst. *Scientific Reports*, **2020**, 10, 2039	4.9	17
51	Mesoporous inorganic nanoscale particles for drug adsorption and controlled release. *Therapeutic Delivery*, **2018**, 9, 287-301	3.8	17
50	Halloysite nanotubes filled with salicylic acid and sodium diclofenac: effects of vacuum pumping on loading and release properties. *Journal of Nanostructure in Chemistry*,1	7.6	17
49	Pluronic nanoparticles as anti-oxidant carriers for polymers. *Polymer Degradation and Stability*, **2016**, 134, 194-201	4.7	16

48	Thermal Properties of Multilayer Nanocomposites Based on Halloysite Nanotubes and Biopolymers. *Journal of Composites Science*, **2018**, 2, 41	3	16
47	Effect of halloysite nanotubes filler on polydopamine properties. *Journal of Colloid and Interface Science*, **2019**, 555, 394-402	9.3	15
46	Olive mill wastewaters decontamination based on organo-nano-clay composites. *Ceramics International*, **2019**, 45, 2751-2759	5.1	14
45	Microemulsion Encapsulated into Halloysite Nanotubes and their Applications for Cleaning of a Marble Surface. *Applied Sciences (Switzerland)*, **2018**, 8, 1455	2.6	14
44	Determining the selective impregnation of waterlogged archaeological woods with poly(ethylene) glycols mixtures by differential scanning calorimetry. *Journal of Thermal Analysis and Calorimetry*, **2013**, 111, 1449-1455	4.1	13
43	Adsorption Studies of Molecules on the Halloysite Surfaces: A Computational and Experimental Investigation. *Journal of Physical Chemistry C*, **2017**, 121, 2951-2958	3.8	12
42	Solid state 13C-NMR methodology for the cellulose composition studies of the shells of Prunus dulcis and their derived cellulosic materials. *Carbohydrate Polymers*, **2020**, 240, 116290	10.3	12
41	Facile Fabrication of Natural Polyelectrolyte-Nanoclay Composites: Halloysite Nanotubes, Nucleotides and DNA Study. *Molecules*, **2020**, 25,	4.8	12
40	Halloysite nanotubes as nanoreactors for heterogeneous micellar catalysis. *Journal of Colloid and Interface Science*, **2022**, 608, 424-434	9.3	12
39	Boosting the properties of a fluorescent dye by encapsulation into halloysite nanotubes. *Dyes and Pigments*, **2021**, 187, 109094	4.6	11
38	Filling of Mater-Bi with Nanoclays to Enhance the Biofilm Rigidity. *Journal of Functional Biomaterials*, **2018**, 9,	4.8	11
37	Sedimentation of halloysite nanotubes from different deposits in aqueous media at variable ionic strengths. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 576, 22-28	5.1	10
36	Temperature-responsive hybrid nanomaterials based on modified halloysite nanotubes uploaded with silver nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 641, 128525	5.1	10
35	Bionanocomposite Films Containing Halloysite Nanotubes and Natural Antioxidants with Enhanced Performance and Durability as Promising Materials for Cultural Heritage Protection. *Polymers*, **2020**, 12,	4.5	10
34	Comparative study of historical woods from XIX century by thermogravimetry coupled with FTIR spectroscopy. *Cellulose*, **2019**, 26, 8853-8865	5.5	9
33	Adsorption isotherms and thermal behavior of hybrids based on quercetin and inorganic fillers. *Journal of Thermal Analysis and Calorimetry*, **2019**, 138, 1971-1977	4.1	7
32	Effect of the supramolecular interactions on the nanostructure of halloysite/biopolymer hybrids: a comprehensive study by SANS, fluorescence correlation spectroscopy and electric birefringence. *Physical Chemistry Chemical Physics*, **2020**, 22, 8193-8202	3.6	7
31	Synthesis, characterization and study of covalently modified triazole LAPONITE edges. *Applied Clay Science*, **2020**, 187, 105489	5.2	7

30	Crystallinity of block copolymer controlled by cyclodextrin. *Journal of Thermal Analysis and Calorimetry*, **2018**, 132, 191-196	4.1	6
29	Ciprofloxacin carrier systems based on hectorite/halloysite hybrid hydrogels for potential wound healing applications. *Applied Clay Science*, **2021**, 215, 106310	5.2	6
28	Insights into grafting of (3-Mercaptopropyl) trimethoxy silane on halloysite nanotubes surface. *Journal of Organometallic Chemistry*, **2020**, 915, 121224	2.3	6
27	Hand-made paper obtained by green procedure of cladode waste of (L.) Mill. from Sicily. *Natural Product Research*, **2021**, 35, 359-368	2.3	6
26	Conversion of Organic Dyes into Pigments: Extraction of Flavonoids from Blackberries () and Stabilization. *Molecules*, **2021**, 26,	4.8	5
25	Mixed aggregates based on tetronic-fluorinated surfactants for selective oils capture. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 474, 85-91	5.1	4
24	Halloysite nanotubes/pluronic nanocomposites for waterlogged archeological wood: thermal stability and X-ray microtomography. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 981-989	4.1	4
23	Tubular Nanocontainers for Drug Delivery **2018**, 85-108		4
22	Understanding the Effects of Crosslinking and Reinforcement Agents on the Performance and Durability of Biopolymer Films for Cultural Heritage Protection. *Molecules*, **2021**, 26,	4.8	4
21	Non-isothermal thermogravimetry as an accelerated tool for the shelf-life prediction of paracetamol formulations. *Thermochimica Acta*, **2021**, 700, 178940	2.9	4
20	Synthesis and Characterization of Nanomaterial Based on Halloysite and Hectorite Clay Minerals Covalently Bridged. *Nanomaterials*, **2021**, 11,	5.4	4
19	Covalently modified nanoclays: synthesis, properties and applications **2020**, 305-333		3
18	Prodrug based on halloysite delivery systems to improve the antitumor ability of methotrexate in leukemia cell lines.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 213, 112385	6	3
17	Halloysite nanotubes-based nanocomposites for the hydrophobization of hydraulic mortar1		3
16	Colloidal stability and self-assembling behavior of nanoclays **2020**, 95-116		2
15	Pickering Emulsions Stabilized by Halloysite Nanotubes: From General Aspects to Technological Applications. *Advanced Materials Interfaces*,2102346	4.6	2
14	Restoration of a XVII Century predella reliquary: From Physico-Chemical Characterization to the Conservation Process. *Forests*, **2021**, 12, 345	2.8	2
13	Nanoclays for Conservation **2019**, 149-170		2

12	Supramolecular Association of Halochromic Switches and Halloysite Nanotubes in Fluorescent Nanoprobes for Tumor Detection. *ACS Applied Nano Materials*,	5.6	2
11	Properties and Structural Studies of Multi-Wall Carbon Nanotubes-Phosphate Ester Hybrids. *International Journal of Organic Chemistry*, **2013**, 03, 26-34	0.3	1
10	Separation of halloysite/kaolinite mixtures in water controlled by sucrose addition: The influence of the attractive forces on the sedimentation behavior. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 641, 128530	5.1	1
9	Grafting of (3-Chloropropyl)-Trimethoxy Silane on Halloysite Nanotubes Surface. *Applied Sciences (Switzerland)*, **2021**, 11, 5534	2.6	1
8	Effect of Polarity of Solvent on Silanization of Halloysite Nanoclay Using (3-Glycidyloxy propyl) Trimethoxy Silane. *Journal of Inorganic and Organometallic Polymers and Materials*, **2021**, 31, 2569-2578	3.2	1
7	Effect of Polymer Length on the Adsorption onto Aluminogermanate Imogolite Nanotubes. *Langmuir*, **2021**, 37, 9858-9864	4	1
6	Inclusion complexes of triblock L35 copolymer and hydroxyl propyl cyclodextrins: a physico-chemical study. *New Journal of Chemistry*, **2022**, 46, 6114-6120	3.6	1
5	The Use of Silicones as Extractants of Biologically Active Substances from Vegetable Raw Materials. *Applied Sciences (Switzerland)*, **2021**, 11, 10625	2.6	0
4	New Insights into Segmental Packing, Chain Dynamics and Thermomechanical Performance of Aliphatic Polyurea Composites: Comparison between Silica Oxides and Titanium (III) Oxides. *Macromolecular Materials and Engineering*,2100582	3.9	0
3	Lifetime predictions of non-ionic and ionic biopolymers: kinetic studies by non-isothermal thermogravimetric analysis. *Emergent Materials*,1	3.5	0
2	CHAPTER 6:Halloysite Based Smart Hybrid Nanomaterials for the Solubilization of Hydrophobic Compounds in Aqueous Media. *RSC Smart Materials*, **2016**, 187-206	0.6	
1	Innovative and Integrated Strategies: Case Studies **2022**, 97-116		