

# Ahmad Mehdi

## List of Publications by Year in descending order

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84  
papers

2,017  
citations

201385

27  
h-index

276539

41  
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86  
all docs

86  
docs citations

86  
times ranked

2730  
citing authors

#	ARTICLE	IF	CITATIONS
1	From molecular chemistry to hybrid nanomaterials. Design and functionalization. Chemical Society Reviews, 2011, 40, 563-574.	18.7	185
2	Chemical insights into bioinks for 3D printing. Chemical Society Reviews, 2019, 48, 4049-4086.	18.7	145
3	CO <sub>2</sub> as a Supramolecular Assembly Agent: A Route for Lamellar Materials with a High Content of Amine Groups. Journal of the American Chemical Society, 2005, 127, 11204-11205.	6.6	63
4	Study of Silyl Cations Bearing an Aryldiamine Pincer Ligand. Organometallics, 1996, 15, 4326-4333.	1.1	59
5	Use of the 2,6-Bis[(dimethylamino)methyl]phenyl Ligand for the Study of Nucleophilic Substitution at Hexacoordinate Silicon Centers. Evidence Suggestive of a Heptacoordinate Silicon Transition State. Organometallics, 1995, 14, 194-198.	1.1	50
6	Hydrophilic conditions: a new way for self-assembly of hybrid silica containing long alkylene chains. Journal of Materials Chemistry, 2005, 15, 841-843.	6.7	48
7	Chemical cross-linking methods for cell encapsulation in hydrogels. Materials Today Communications, 2019, 20, 100536.	0.9	47
8	An original synthesis of highly ordered organosilica with a high content of thiol groups. Chemical Communications, 2006, , 347-349.	2.2	46
9	Bifunctional ordered mesoporous materials: direct synthesis and study of the distribution of two distinct functional groups in the pore channels. Journal of Materials Chemistry, 2008, 18, 4193.	6.7	46
10	Direct synthesis of bifunctional mesoporous organosilicas containing chelating groups in the framework and reactive functional groups in the channel pores. Journal of Materials Chemistry, 2007, 17, 349-356.	6.7	45
11	Chirality in DNA- $\pi$ -conjugated polymer supramolecular structures: insights into the self-assembly. Chemical Communications, 2013, 49, 5483.	2.2	45
12	Hybrid Materials Containing Metal(II) Schiff Base Complex Covalently Linked to the Silica Matrix by Two Si-C Bonds: Reaction with Dioxygen. Chemistry of Materials, 2003, 15, 3152-3160.	3.2	44
13	Synthesis of large-pore ordered mesoporous silicas containing aminopropyl groups. New Journal of Chemistry, 2005, 29, 965.	1.4	41
14	Self-assembly of layered organosilicas based on weak intermolecular interactions. Dalton Transactions, 2010, 39, 7534.	1.6	41
15	Inorganic polymerization: an attractive route to biocompatible hybrid hydrogels. Journal of Materials Chemistry B, 2018, 6, 3434-3448.	2.9	41
16	Phosphorus-Containing Fluoropolymers: State of the Art and Applications. ACS Applied Materials & Interfaces, 2020, 12, 38-59.	4.0	41
17	Simple and Specific Grafting of Antibacterial Peptides on Silicone Catheters. Advanced Healthcare Materials, 2016, 5, 3067-3073.	3.9	39
18	Use of thulium-doped LaF <sub>3</sub> nanoparticles to lower the phonon energy of the thulium's environment in silica-based optical fibres. Optical Materials, 2017, 68, 24-28.	1.7	39

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19	Preparation of a hybrid organic–inorganic material containing macrocyclic triolefinic 15-membered palladium(0) complexCatalytic activity in Suzuki cross-coupling and butadiene telomerization reactions. <i>Applied Catalysis A: General</i> , 2006, 297, 117-124.	2.2	37
20	Sol–gel synthesis of collagen-inspired peptide hydrogel. <i>Materials Today</i> , 2017, 20, 59-66.	8.3	37
21	From simple molecules to highly functionalised lamellar materials. <i>Journal of Materials Chemistry</i> , 2008, 18, 2028.	6.7	36
22	Poly(vinylidene fluoride) Containing Phosphonic Acid as Anticorrosion Coating for Steel. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6433-6443.	4.0	35
23	Synthesis and characterisation of $\pi$ -conjugated polymer/silica hybrids containing regioregular ionic polythiophenes. <i>Journal of Materials Chemistry</i> , 2011, 21, 2733.	6.7	34
24	When graphene meets ionic liquids: a good match for the design of functional materials. <i>Nanoscale</i> , 2021, 13, 2750-2779.	2.8	34
25	Single-ion conductor nanocomposite organic–inorganic hybrid membranes for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12162-12165.	5.2	29
26	Unambiguous and Controlled One-Pot Synthesis of Multifunctional Silica Nanoparticles. <i>Chemistry of Materials</i> , 2016, 28, 885-889.	3.2	29
27	Click reactions: Recent trends in preparation of new sorbents and stationary phases for extraction and chromatographic applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 556-573.	5.8	28
28	From an Octakis(3-cyanopropyl)silsesquioxane Building Block to a Highly COOH–Functionalized Hybrid Organic–Inorganic Material. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 143-150.	1.0	26
29	Site-specific grafting on titanium surfaces with hybrid temporin antibacterial peptides. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1782-1790.	2.9	26
30	Easy Synthesis of Tunable Hybrid Bioactive Hydrogels. <i>Chemistry of Materials</i> , 2016, 28, 1261-1265.	3.2	25
31	Fluorescent Silica Nanoparticles with Multivalent Inhibitory Effects towards Carbonic Anhydrases. <i>Chemistry - A European Journal</i> , 2015, 21, 10306-10309.	1.7	23
32	Well-designed poly(3-hexylthiophene) as hole transporting material: A new opportunity for solid-state dye-sensitized solar cells. <i>Synthetic Metals</i> , 2017, 226, 157-163.	2.1	23
33	Bioactive peptides grafted silicone dressings: A simple and specific method. <i>Materials Today Chemistry</i> , 2017, 4, 73-83.	1.7	22
34	Self-assembly of layered functionalized hybrid materials. A good opportunity for extractive chemistry. <i>Journal of Materials Chemistry</i> , 2010, 20, 9281.	6.7	21
35	Production of formate from CO <sub>2</sub> gas under ambient conditions: towards flow-through enzyme reactors. <i>Green Chemistry</i> , 2020, 22, 3727-3733.	4.6	21
36	New triethoxysilylated 10-vertex closo-decaborate clusters. Synthesis and controlled immobilization into mesoporous silica. <i>Dalton Transactions</i> , 2014, 43, 13087-13095.	1.6	20

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37	Vinylidene Fluoride-Based Polymer Network via Cross-Linking of Pendant Triethoxysilane Functionality for Potential Applications in Coatings. <i>Macromolecules</i> , 2017, 50, 9329-9339.	2.2	20
38	One-step non-hydrolytic sol-gel synthesis of mesoporous SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -NiO catalysts for ethylene oligomerization. <i>Microporous and Mesoporous Materials</i> , 2021, 322, 111165.	2.2	20
39	Bioorganic hybrid OMS by straightforward grafting of trialkoxysilyl peptides. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2921.	2.9	19
40	Selective Lanthanides Sequestration Based on a Self-Assembled Organosilica. <i>Chemistry - A European Journal</i> , 2010, 16, 10226-10233.	1.7	18
41	From protected trialkoxysilyl-peptide building blocks to bioorganic-silica hybrid materials. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6510.	2.9	18
42	Microgels of silylated HPMC as a multimodal system for drug co-encapsulation. <i>International Journal of Pharmaceutics</i> , 2017, 532, 790-801.	2.6	17
43	A New Way to Silicone-Based Peptide Polymers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3778-3782.	7.2	16
44	An efficient route to prepare highly dispersed metallic copper nanoparticles on ordered mesoporous silica with outstanding activity for hydrogenation reactions. <i>Catalysis Science and Technology</i> , 2015, 5, 3735-3745.	2.1	16
45	Self-assembled conjugated polyelectrolyte-surfactant complexes as efficient cathode interlayer materials for bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23905-23916.	5.2	16
46	Recent Achievements on Functionalization within closo-Decahydrodecaborate [B <sub>10</sub> H <sub>10</sub> ] <sup>2+</sup> Clusters. <i>ChemistrySelect</i> , 2022, 7, .	0.7	15
47	Multifunctional Silica Nanoparticles Modified via Silylated-Decaborate Precursors. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	1.5	14
48	Europium-Doped Sol-Gel SiO <sub>2</sub> -Based Glasses: Effect of the Europium Source and Content, Magnesium Addition and Thermal Treatment on Their Photoluminescence Properties. <i>Molecules</i> , 2018, 23, 1768.	1.7	14
49	Clean-activation of the B-H bond in closo-decahydrodecaborate [B <sub>10</sub> H <sub>10</sub> ] <sup>2+</sup> anion via soft-route. <i>Journal of Organometallic Chemistry</i> , 2020, 910, 121132.	0.8	14
50	Biocompatible Glycine-Assisted Catalysis of the Sol-Gel Process: Development of Cell-Embedded Hydrogels. <i>ChemPlusChem</i> , 2019, 84, 1720-1729.	1.3	13
51	Design of PEGylated Three Ligands Silica Nanoparticles for Multi-Receptor Targeting. <i>Nanomaterials</i> , 2021, 11, 177.	1.9	13
52	Bottom-up strategies for the synthesis of peptide-based polymers. <i>Progress in Polymer Science</i> , 2021, 115, 101377.	11.8	13
53	Inorganic Sol-Gel Polymerization for Hydrogel Bioprinting. <i>ACS Omega</i> , 2020, 5, 2640-2647.	1.6	13
54	Engineered Adhesion Peptides for Improved Silicon Adsorption. <i>Langmuir</i> , 2015, 31, 11868-11874.	1.6	12

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55	Heteromultivalent targeting of integrin $\alpha_5\beta_1$ and neuropilin 1 promotes cell survival via the activation of the IGF-1/insulin receptors. <i>Biomaterials</i> , 2018, 155, 64-79.	5.7	12
56	Sol-gel process: the inorganic approach in protein imprinting. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2155-2178.	2.9	12
57	A Collagen-Mimetic Organic-Inorganic Hydrogel for Cartilage Engineering. <i>Gels</i> , 2021, 7, 73.	2.1	11
58	Self-Limited Grafting of Sub-Monolayers via Diels-Alder Reaction on Glassy Carbon Electrodes: An Electrochemical Insight. <i>ACS Omega</i> , 2019, 4, 20540-20546.	1.6	10
59	In Depth Analysis of Photovoltaic Performance of Chlorophyll Derivative-Based All Solid-State Dye-Sensitized Solar Cells. <i>Molecules</i> , 2020, 25, 198.	1.7	10
60	Multi-functional hybrid materials for proton conductivity. <i>New Journal of Chemistry</i> , 2012, 36, 1218.	1.4	9
61	Combining sol-gel and microfluidics processes for the synthesis of protein-containing hybrid microgels. <i>Chemical Communications</i> , 2019, 55, 13112-13115.	2.2	9
62	Turning peptides in comb silicone polymers. <i>Journal of Peptide Science</i> , 2015, 21, 243-247.	0.8	8
63	Selective homodimerization of unprotected peptides using hybrid hydroxydimethylsilane derivatives. <i>RSC Advances</i> , 2016, 6, 32905-32914.	1.7	7
64	The presence of PEG on nanoparticles presenting the c[RGDFK]- and/or ATWLPPR peptides deeply affects the RTKs-AKT-GSK3 $\beta$ -eNOS signaling pathway and endothelial cells survival. <i>International Journal of Pharmaceutics</i> , 2019, 568, 118507.	2.6	7
65	Highlighting of LaF3 Reactivity with SiO2 and GeO2 at High Temperature. <i>Ceramics</i> , 2022, 5, 182-200.	1.0	7
66	Tetracycline@silver ions-functionalized mesoporous silica for high bactericidal activity at ultra-low concentration. <i>Nanomedicine</i> , 2018, 13, 1731-1751.	1.7	6
67	Sol-Gel Chemistry: From Molecule to Functional Materials. <i>Molecules</i> , 2020, 25, 2538.	1.7	6
68	Ionic guest in ionic host: ionosilica ionogel composites via ionic liquid confinement in ionosilica supports. <i>Materials Chemistry Frontiers</i> , 2022, 6, 939-947.	3.2	6
69	Polyhedral Oligomeric Silsesquioxane (POSS) Bearing Glyoxylic Aldehyde as Clickable Platform Towards Multivalent Conjugates. <i>Chemistry - A European Journal</i> , 2017, 23, 17867-17869.	1.7	5
70	New Layered Polythiophene-Silica Composite Through the Self-Assembly and Polymerization of Thiophene-Based Silylated Molecular Precursors. <i>Molecules</i> , 2018, 23, 2510.	1.7	5
71	Self-mineralization and assembly of a bis-silylated Phe-Phe pseudodipeptide to a structured bioorganic-inorganic material. <i>Materials Horizons</i> , 2019, 6, 2040-2046.	6.4	5
72	Strategies for Chalcogenide Thin Film Functionalization. <i>Langmuir</i> , 2020, 36, 7691-7700.	1.6	4

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73	Phosphonium-based polythiophene conjugated polyelectrolytes with different surfactant counterions: thermal properties, self-assembly and photovoltaic performances. <i>Polymer International</i> , 2021, 70, 457-466.	1.6	4
74	Development of Amino Acids Functionalized SBA-15 for the Improvement of Protein Adsorption. <i>Molecules</i> , 2021, 26, 6085.	1.7	4
75	Solid-Liquid Europium Ion Extraction via Phosphonic Acid-Functionalized Polyvinylidene Fluoride Siloxanes. <i>Polymers</i> , 2020, 12, 1955.	2.0	3
76	Synthesis, characterization and use of a POSS-arylamine based push-pull octamer. <i>New Journal of Chemistry</i> , 2021, 45, 6186-6191.	1.4	3
77	Direct Synthesis of Peptide-Containing Silicones: A New Way to Bioactive Materials. <i>Chemistry - A European Journal</i> , 2020, 26, 12839-12845.	1.7	2
78	The Effect of Size and Thermal Treatment on the Photoluminescent Properties of Europium-Doped SiO <sub>2</sub> Nanoparticles Prepared in One Pot by Sol-Gel. <i>Materials</i> , 2021, 14, 1607.	1.3	2
79	Encapsulation of BSA in hybrid PEG hydrogels: stability and controlled release. <i>RSC Advances</i> , 2021, 11, 30887-30897.	1.7	2
80	Hybrid Silylated Peptides for the Design of Bio-functionalized Materials. <i>Springer Protocols</i> , 2020, , 69-92.	0.1	2
81	Controlled Silylation of Polysaccharides: Attractive Building Blocks for Biocompatible Foams and Cell-Laden Hydrogels. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4087-4097.	2.0	2
82	Ladder-like aminopropylsilsesquioxane. A nice alternative for controlled drug delivery. <i>RSC Advances</i> , 2013, 3, 8160.	1.7	1
83	Hydrolytic vs. Nonhydrolytic Sol-Gel in Preparation of Mixed Oxide Silica-Alumina Catalysts for Esterification. <i>Molecules</i> , 2022, 27, 2534.	1.7	0
84	Strategies for selective functionalization of amorphous chalcogenide rib waveguides. <i>Optical Materials</i> , 2022, 127, 112327.	1.7	0