Wendel Alves

List of Publications by Year
in descending order

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99 papers	2,063 citations	201385 27 h-index	301761 39 g-index
102 all docs	102 docs citations	102 times ranked	2816 citing authors

#	Article	IF	Citations
1	<scp>l</scp>-Diphenylalanine Microtubes As a Potential Drug-Delivery System: Characterization, Release Kinetics, and Cytotoxicity. Langmuir, 2013, 29, 10205-10212.	1.6	142
2	Molecular structure and intra- and intermolecular magnetic interactions in chloro-bridged copper(II) dimers. Inorganica Chimica Acta, 2004, 357, 2269-2278.	1.2	88
3	Preparation and characterization of a new composite conductive polyethersulfone membrane using polyaniline (PANI) and reduced graphene oxide (rGO). Chemical Engineering Journal, 2020, 390, 124612.	6.6	67
4	Ptâ€“Ruâ€“TiO2 photoelectrocatalysts for methanol oxidation. Journal of Power Sources, 2011, 196, 872-876.	4.0	60
5	Electrochemical Determination of Dopamine Based on Self-Assembled Peptide Nanostructure. ACS Applied Materials & Interfaces, 2011, 3, 4437-4443.	4.0	56
6	A Nonenzymatic Biosensor Based on Gold Electrodes Modified with Peptide Self-Assemblies for Detecting Ammonia and Urea Oxidation. Langmuir, 2014, 30, 11464-11473.	1.6	56
7	Self-Assembled Arginine-Capped Peptide Bolaamphiphile Nanosheets for Cell Culture and Controlled Wettability Surfaces. Biomacromolecules, 2015, 16, 3180-3190.	2.6	49
8	Spatial organization of peptide nanotubes for electrochemical devices. Journal of Materials Science, 2010, 45, 5101-5108.	1.7	47
9	Self-Assembly of a Designed Alternating Arginine/Phenylalanine Oligopeptide. Langmuir, 2015, 31, 4513-4523.	1.6	46
10	Self-assembly pathway of peptide nanotubes formed by a glutamatic acid-based bolaamphiphile. Chemical Communications, 2015, 51, 11634-11637.	2.2	44
11	Shear Alignment of Bola-Amphiphilic Arginine-Coated Peptide Nanotubes. Biomacromolecules, 2017, 18, 141-149.	2.6	42
12	Water-driven stabilization of diphenylalanine nanotube structures. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	40
13	The effects of water molecules on the electronic and structural properties of peptide nanotubes. Physical Chemistry Chemical Physics, 2013, 15, 7555.	1.3	38
14	Hierarchical Selfâ€Assembly of Peptides and its Applications in Bionanotechnology. Macromolecular Chemistry and Physics, 2019, 220, 1900085.	1.1	37
15	Diimine copper(II) complexes as building blocks for microporous catalytic materials. Inorganic Chemistry Communication, 2003, 6, 294-299.	1.8	35
16	Structural and Photophysical Properties of Peptide Micro/Nanotubes Functionalized with Hypericin. Journal of Physical Chemistry B, 2013, 117, 2605-2614.	1.2	35
17	Bioinspired Peptide Nanostructures for Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2014, 6, 21408-21415.	4.0	35
18	Selfâ€Assembled Peptideâ€“Polyfluorene Nanocomposites for Biodegradable Organic Electronics. Advanced Materials Interfaces, 2015, 2, 1500265.	1.9	35

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19	The adsorption of 2,2â€²:6â€²,2â€³-terpyridine, 4â€²-(5-mercaptopentyl)-2,2â€²:6â€²,2â€³-terpyridinyl, and perchlorate on silver and copper surfaces monitored by SERS. Polyhedron, 2003, 22, 1673-1682.	1.0	34
20	Chiral organocatalysts based on lipopeptide micelles for aldol reactions in water. Physical Chemistry Chemical Physics, 2017, 19, 1181-1189.	1.3	34
21	Polycaprolactone fibers with self-assembled peptide micro/nanotubes: a practical route towards enhanced mechanical strength and drug delivery applications. Journal of Materials Chemistry B, 2016, 4, 1405-1413.	2.9	33
22	Multifunctional biosensors based on peptideâ€“polyelectrolyte conjugates. Physical Chemistry Chemical Physics, 2016, 18, 3223-3233.	1.3	30
23	Amphipathic design dictates self-assembly, cytotoxicity and cell uptake of arginine-rich surfactant-like peptides. Journal of Materials Chemistry B, 2020, 8, 2495-2507.	2.9	30
24	Equilibria and tyrosinase activity of a dinuclear and its analogous tetranuclear imidazolate-bridged copper(II) complexes. Inorganica Chimica Acta, 2001, 321, 11-21.	1.2	29
25	Comparative kinetic studies on tyrosinase-like catalytic activity of dinuclear imidazole-containing copper(II) complexes. Journal of Molecular Catalysis A, 2003, 198, 63-75.	4.8	29
26	Sequence length dependence in arginine/phenylalanine oligopeptides: Implications for self-assembly and cytotoxicity. Biophysical Chemistry, 2018, 233, 1-12.	1.5	29
27	Design of molecular wires based on supramolecular structures for application in glucose biosensors. Biosensors and Bioelectronics, 2006, 22, 298-305.	5.3	28
28	Synthesis, spectroscopic characterization and radiosensitizing properties of acetato-bridged copper(II) complexes with 5-nitroimidazole drugs. Inorganica Chimica Acta, 2011, 367, 85-92.	1.2	28
29	Self-Assembly of Argâ€“Phe Nanostructures via the Solidâ€“Vapor Phase Method. Journal of Physical Chemistry B, 2013, 117, 733-740.	1.2	27
30	Infinite zig-zag and cyclic-tetranuclear isomeric imidazolate-bridged polynuclear copper(II) complexes: Magnetic properties, catalytic activity and electrospray mass and tandem mass spectrometry characterization. Inorganica Chimica Acta, 2005, 358, 3581-3591.	1.2	26
31	Influence of pH and Pyrenyl on the Structural and Morphological Control of Peptide Nanotubes. Journal of Physical Chemistry C, 2011, 115, 7906-7913.	1.5	23
32	Structural behaviour and gene delivery in complexes formed between DNA and arginine-containing peptide amphiphiles. Soft Matter, 2016, 12, 9158-9169.	1.2	23
33	A Chloroâ€Bridged Linear Chain Imineâ€Copper(II) Complex and Its Application as an Enzymeâ€Free Amperometric Biosensor for Hydrogen Peroxide. European Journal of Inorganic Chemistry, 2009, 2009, 2219-2228.	1.0	22
34	The role of water and structure on the generation of reactive oxygen species in peptide/hypericin complexes. Journal of Peptide Science, 2014, 20, 554-562.	0.8	22
35	Self-Assembly of Peptide Nanostructures onto an Electrode Surface for Nonenzymatic Oxygen Sensing. Journal of Physical Chemistry C, 2015, 119, 1038-1046.	1.5	22
36	Evaluation of Hexaniobate Nanoscrolls as Support for Immobilization of a Copper Complex Catalyst. Inorganic Chemistry, 2006, 45, 6214-6221.	1.9	21

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37	Visible-light photocatalytic activity of NH 4 NO 3 ion-exchanged nitrogen-doped titanate and TiO 2 nanotubes. Journal of Molecular Catalysis A, 2014, 394, 48-56.	4.8	21
38	2D Layered Dipeptide Crystals for Piezoelectric Applications. Advanced Functional Materials, 2021, 31, 2102524.	7.8	21
39	Dye Degradation Mechanisms Using Nitrogen Doped and Copper(II) Phthalocyanine Tetracarboxylate Sensitized Titanate and TiO₂ Nanotubes. Journal of Physical Chemistry C, 2016, 120, 11561-11571.	1.5	20
40	Peptide-Based Assemblies on Electrospun Polyamide-6/Chitosan Nanofibers for Detecting Visceral Leishmaniasis Antibodies. ACS Applied Electronic Materials, 2019, 1, 2086-2095.	2.0	20
41	In Situ Nanocoating on Porous Pyrolyzed Paper Enables Antibiofouling and Sensitive Electrochemical Analyses in Biological Fluids. ACS Applied Materials & Interfaces, 2022, 14, 2522-2533.	4.0	20
42	Multihierarchical electrodes based on titanate nanotubes and zinc oxide nanorods for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 944-952.	5.2	19
43	Amyloidogenic model peptides as catalysts for stereoselective aldol reactions. Catalysis Science and Technology, 2019, 9, 4304-4313.	2.1	19
44	Amyloid Peptide Mixtures: Self-Assembly, Hydrogelation, Nematic Ordering, and Catalysts in Aldol Reactions. Langmuir, 2020, 36, 2767-2774.	1.6	19
45	Self-assembly and intracellular delivery of DNA by a truncated fragment derived from theTrojanpeptidePenetratin. Soft Matter, 2020, 16, 4746-4755.	1.2	17
46	Silk Fibroin/Poly(vinyl Alcohol) Microneedles as Carriers for the Delivery of Singlet Oxygen Photosensitizers. ACS Biomaterials Science and Engineering, 2022, 8, 128-139.	2.6	17
47	A new dinuclear heme-copper complex derived from functionalized protoporphyrin IX. Dalton Transactions, 2007, , 2197.	1.6	16
48	Chemical modification of a nanocrystalline TiO2 film for efficient electric connection of glucose oxidase. Journal of Colloid and Interface Science, 2010, 346, 442-447.	5.0	16
49	Micro- and nano-sized peptidic assemblies prepared via solid-vapor approach: Morphological and spectroscopic aspects. Materials Chemistry and Physics, 2012, 137, 628-636.	2.0	16
50	Silk fibroin hydrogels for potential applications in photodynamic therapy. Biopolymers, 2018, 110, e23245.	1.2	16
51	Self-Assembly of a Catalytically Active Lipopeptide and Its Incorporation into Cubosomes. ACS Applied Bio Materials, 2019, 2, 3639-3647.	2.3	15
52	Approaches for multicopper oxidases in the design of electrochemical sensors for analytical applications. Electrochimica Acta, 2010, 55, 5223-5229.	2.6	14
53	Polycaprolactoneâ€“Polyaniline Blend: Effects of the Addition of Cysteine on the Structural and Molecular Properties. Journal of Physical Chemistry C, 2017, 121, 863-877.	1.5	14
54	Design and characterization of crotamine-functionalized gold nanoparticles. Colloids and Surfaces B: Biointerfaces, 2018, 163, 1-8.	2.5	14

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55	Self-Assembly, Nematic Phase Formation, and Organocatalytic Behavior of a Proline-Functionalized Lipopeptide. ACS Applied Materials & Interfaces, 2020, 12, 13671-13679.	4.0	14
56	Probing nonlinear optical coefficients in self-assembled peptide nanotubes. Physical Chemistry Chemical Physics, 2017, 19, 3084-3093.	1.3	13
57	Multilamellar-to-Unilamellar Transition Induced by Diphenylalanine in Lipid Vesicles. Langmuir, 2018, 34, 2171-2179.	1.6	13
58	Conjugation with L,L-diphenylalanine Self-Assemblies Enhances In Vitro Antitumor Activity of Phthalocyanine Photosensitizer. Scientific Reports, 2017, 7, 13166.	1.6	12
59	Peptide-Tetrapyrrole Supramolecular Self-Assemblies: State of the Art. Molecules, 2021, 26, 693.	1.7	12
60	Equilibria and catalytic properties of a chloro-bridged Diimine copper(II) complex in the N,N,N',N'-tetramethyl-p-phenylenediamine (TMPD) oxidation. Journal of the Brazilian Chemical Society, 2004, 15, 872-883.	0.6	11
61	New Copper(II) Complexes Containing 2-Furoic Hydrazide and 5-Nitro-2-Furoic Hydrazide Ligands: Synthesis, Thermal, Magnetic and Spectroscopic Characterization. Transition Metal Chemistry, 2004, 29, 382-387.	0.7	11
62	Quenching of Photoactivity in Phthalocyanine Copper(II) -Titanate Nanotube Hybrid Systems. Journal of Physical Chemistry C, 2011, 115, 12082-12089.	1.5	11
63	Î²â€sheet assembly in amyloidogenic glutamic acid nanostructures: Insights from Xâ€ray scattering and infrared nanospectroscopy. Journal of Peptide Science, 2019, 25, e3170.	0.8	11
64	Spectroscopic characterization and investigation of the dynamic of charge compensation process of supramolecular films derived from tetra-2-pyridyl-1,4-pyrazine ligand. Journal of the Brazilian Chemical Society, 2008, 19, 651-659.	0.6	10
65	SERS active self-assembled diphenylalanine micro/nanostructures: A combined experimental and theoretical investigation. Journal of Chemical Physics, 2017, 147, 084703.	1.2	10
66	Amyloid Formation by Short Peptides in the Presence of Dipalmitoylphosphatidylcholine Membranes. Langmuir, 2020, 36, 14793-14801.	1.6	10
67	Semiconducting polymerâ€“dipeptide nanostructures by ultrasonically-assisted self-assembling. RSC Advances, 2016, 6, 32171-32175.	1.7	9
68	Crotamine Cell-Penetrating Nanocarriers: Cancer-Targeting and Potential Biotechnological and/or Medical Applications. Methods in Molecular Biology, 2020, 2118, 61-89.	0.4	9
69	Nanostructure Formation and Cell Spheroid Morphogenesis of a Peptide Supramolecular Hydrogel. Langmuir, 2022, 38, 3434-3445.	1.6	9
70	Factorial design analysis of the catalytic activity of di-imine copper(II) complexes in the decomposition of hydrogen peroxide. International Journal of Chemical Kinetics, 2001, 33, 472-479.	1.0	8
71	Electrochromic Properties of a Metallo-supramolecular Polymer Derived from Tetra(2-pyridyl-1,4-pyrazine) Ligands Integrated in Thin Multilayer Films. Langmuir, 2012, 28, 3332-3337.	1.6	8
72	Poly-L-Arginine-Modified Boron-Doped Diamond and Glassy Carbon Electrodes for Terbutaline Sulfate Detection. Journal of Nanoscience and Nanotechnology, 2018, 18, 4551-4558.	0.9	8

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73	Mimics of copper proteins: structural and functional aspects. Anais Da Academia Brasileira De Ciencias, 2000, 72, 51-58.	0.3	7
74	Immobilization of Catalysts of Biological Interest on Porous Oxidized Silicon Surfaces. Journal of Nanoscience and Nanotechnology, 2008, 8, 3570-3576.	0.9	7
75	Magnetic, structural, and transport properties at very high temperature in manganites. Journal of Magnetism and Magnetic Materials, 2012, 324, 2011-2018.	1.0	7
76	Relaxation dynamics of deeply supercooled confined water in <scp>l,l</scp>-diphenylalanine micro/nanotubes. Physical Chemistry Chemical Physics, 2015, 17, 32126-32131.	1.3	7
77	Nanostructured Antigen-Responsive Hydrogels Based on Peptides for Leishmaniasis Detection. Journal of the Brazilian Chemical Society, 0, , .	0.6	7
78	Enhanced piezoresponse and nonlinear optical properties of fluorinated self-assembled peptide nanotubes. AIP Advances, 2019, 9, 115202.	0.6	7
79	Sono-Assembly of the [Arg-Phe]4 Octapeptide into Biofunctional Nanoparticles. Nanomaterials, 2020, 10, 1772.	1.9	7
80	Magnetic-field-induced ordered phase in the chloro-bridged copper(II) dimer system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>[</mml:mo><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>apy mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">l</mml:mi><mml:mn>. Physical Review B, 2017, 95, .	1.1	6
81	Polymorphism of asymmetric catalysts based on amphiphilic lipopeptides in solution. Soft Matter, 2020, 16, 4615-4624.	1.2	6
82	Spectroelectrochemical Study of the Hybrid between Vanadium Oxide and Carboxybenzylviologen for Application in Electrochromic Electrodes. ECS Transactions, 2012, 43, 363-369.	0.3	5
83	Self-assembled gold nanoparticles and amphiphile peptides: a colorimetric probe for copper(ii) ion detection. Dalton Transactions, 2020, 49, 16226-16237.	1.6	5
84	Influence of Preparation Methodology on the Photocatalytic Activity of Nitrogen Doped Titanate and TiO₂ Nanotubes. Journal of Nanoscience and Nanotechnology, 2020, 20, 5390-5401.	0.9	5
85	Synthesis of Furan Derivatives Condensed with Carbohydrates. Molecules, 2001, 6, 728-735.	1.7	4
86	Characterization of anodic silicon oxide films grown in room temperature ionic liquids. Electrochimica Acta, 2008, 53, 7396-7402.	2.6	4
87	Hybrid Conjugates Formed between Gold Nanoparticles and an Amyloidogenic Diphenylalanineâ€Cysteine Peptide. ChemistrySelect, 2018, 3, 6756-6765.	0.7	4
88	The Role of Amylogenic Fiber Aggregation on the Elasticity of a Lipid Membrane. ACS Applied Bio Materials, 2020, 3, 815-822.	2.3	4
89	Tailoring a Zinc Oxide Nanorod Surface by Adding an Earthâ€Abundant Cocatalyst for Induced Sunlight Water Oxidation. ChemPhysChem, 2020, 21, 476-483.	1.0	4
90	Structural, electronic, and magnetic entropy contributions of the orbital orderâ€“disorder transition in LaMnO₃. Phase Transitions, 2011, 84, 284-290.	0.6	3

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91	AnÃ¡lise vibracional de compostos de coordenaÃ§Ã£o de niquel(II): uma abordagem ao ensino dos grupos pontuais. Quimica Nova, 2012, 35, 1264-1270.	0.3	2
92	Elucidating the crystal structure of the antimalarial drug (Â±)-mefloquine hydrochloride: a tetragonal hydrated species. Journal of Applied Crystallography, 2014, 47, 1380-1386.	1.9	2
93	Structure optimization of lipopeptide assemblies for aldol reactions in an aqueous medium. Physical Chemistry Chemical Physics, 2021, 23, 10953-10963.	1.3	2
94	Dinuclear Azide-Bridged Copper(II) Complex as Building Block for the Assembly of a 2D-Supramolecular Array. Science of Advanced Materials, 2010, 2, 173-183.	0.1	2
95	2D Layered Dipeptide Crystals for Piezoelectric Applications (Adv. Funct. Mater. 43/2021). Advanced Functional Materials, 2021, 31, 2170320.	7.8	2
96	Hybrid Hydrogels Based on Polyethylene Glycol Bioconjugated with Silylatedâ€‘Amyloidogenic Peptides. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
97	Atividade eletrocatalÃ‡tica de sistemas biomimÃ©ticos da enzima catalase. Quimica Nova, 2011, 34, 1588-1594.	0.3	0
98	Organic Electrochemical Transistors in Bioanalytical Chemistry. , 2022, , 305-312.		0
99	Interfacial Self-Assembly of Silk Fibroin Polypeptides and Î±-NiCo(OH)₂ Nanocrystals with Tunable Energy Storage Applications. ACS Applied Electronic Materials, 2022, 4, 1214-1224.	2.0	0