

dm I Mechler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131
papers

3,164
citations

30
h-index

51
g-index

151
ext. papers

3,629
ext. citations

4.1
avg, IF

5.4
L-index

#	Paper	IF	Citations
131	Assessment of the free radical scavenging potential of cannabidiol under physiological conditions: Theoretical and experimental investigations. <i>Journal of Molecular Liquids</i> , 2022 , 346, 118277	6	2
130	Theoretical insights into the antiradical activity and copper-catalysed oxidative damage of mexidol in the physiological environment.. <i>Royal Society Open Science</i> , 2022 , 9, 211239	3.3	0
129	Oxoberberine: a promising natural antioxidant in physiological environments.. <i>RSC Advances</i> , 2022 , 12, 9738-9743	3.7	
128	Protocol for using artificial lipid droplets to study the binding affinity of lipid droplet-associated proteins.. <i>STAR Protocols</i> , 2022 , 3, 101214	1.4	
127	Antioxidant Activity of Natural Samwirin A: Theoretical and Experimental Insights. <i>ACS Omega</i> , 2021 , 6, 27546-27551	3.9	0
126	The radical scavenging activity of monosubstituted iminostilbenes: Theoretical insights. <i>Chemical Physics Letters</i> , 2021 , 784, 139105	2.5	
125	Phenolic Contents and Antioxidant Activity of Helicteres Hirsuta Extracts. <i>Letters in Organic Chemistry</i> , 2021 , 18, 128-133	0.6	0
124	Modelling the mechanism and kinetics of the radical scavenging activity of iminostilbene. <i>Polymer Degradation and Stability</i> , 2021 , 185, 109483	4.7	4
123	Radical Scavenging Activity of Natural Anthraquinones: a Theoretical Insight. <i>ACS Omega</i> , 2021 , 6, 133913-133922	3.3	2
122	The radical scavenging activity of abietane diterpenoids: Theoretical insights. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 105, 107892	2.8	2
121	The hydroperoxyl radical scavenging activity of sulfuretin: insights from theory. <i>Royal Society Open Science</i> , 2021 , 8, 210626	3.3	1
120	Insights into the mechanisms and kinetics of the hydroperoxyl radical scavenging activity of Artepillin C. <i>New Journal of Chemistry</i> , 2021 , 45, 7774-7780	3.6	7
119	A brief overview of global biotechnology. <i>Biotechnology and Biotechnological Equipment</i> , 2021 , 35, S5-S14	4.6	4
118	Validating an artificial organelle: Studies of lipid droplet-specific proteins on adiposome platform. <i>IScience</i> , 2021 , 24, 102834	6.1	2
117	Mechanistic and kinetic studies of the radical scavenging activity of natural abietanes: A theoretical insight. <i>Chemical Physics Letters</i> , 2021 , 777, 138737	2.5	0
116	The hydroperoxyl and superoxide anion radical scavenging activity of anthocyanidins in physiological environments: Theoretical insights into mechanisms and kinetics. <i>Phytochemistry</i> , 2021 , 192, 112968	4	1
115	Is natural fraxin an overlooked radical scavenger?. <i>RSC Advances</i> , 2021 , 11, 14269-14275	3.7	3

114	Another look at reactions of 4-hydroxycoumarin with hydroxyl radical in the environment: deprotonation and diffusion effects. <i>New Journal of Chemistry</i> , 2021 , 45, 17683-17691	3.6	0
113	Theoretical and Experimental Studies of the Antioxidant and Antinitrosant Activity of Syringic Acid. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15514-15520	4.2	30
112	Mechanism of Action of the Antimicrobial Peptide Caerin1.1. <i>ChemistrySelect</i> , 2020 , 5, 5895-5902	1.8	0
111	Thermodynamic and kinetic studies of the antiradical activity of 5-hydroxymethylfurfural: computational insights. <i>New Journal of Chemistry</i> , 2020 , 44, 9863-9869	3.6	29
110	A thermodynamic and kinetic study of the antioxidant activity of natural hydroanthraquinones.. <i>RSC Advances</i> , 2020 , 10, 20089-20097	3.7	14
109	Membrane morphology effects in quartz crystal microbalance characterization of antimicrobial peptide activity. <i>Biophysical Chemistry</i> , 2020 , 262, 106381	3.5	8
108	The role of C-terminal amidation in the mechanism of action of the antimicrobial peptide aurein 1.2. <i>The EuroBiotech Journal</i> , 2020 , 4, 25-31	1.5	4
107	Coordination crosslinking of helical substituted oligoamide nanorods with Cu(II). <i>Supramolecular Chemistry</i> , 2020 , 32, 222-232	1.8	0
106	A luminescent lipid mimetic iridium(III) N-heterocyclic carbene complex for membrane labelling. <i>Journal of Inorganic Biochemistry</i> , 2020 , 206, 111047	4.2	1
105	Thermodynamic and Kinetic Studies of the Radical Scavenging Behavior of Hydralazine and Dihydralazine: Theoretical Insights. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 4123-4131	3.4	21
104	Atomic Force Microscopy of Proteins. <i>Methods in Molecular Biology</i> , 2020 , 2073, 247-285	1.4	3
103	The radical scavenging activity of natural ramalin: A mechanistic and kinetic study. <i>Chemical Physics Letters</i> , 2020 , 739, 137004	2.5	11
102	In Silico Study of the Radical Scavenging Activities of Natural Indole-3-Carbinols. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 316-321	6.1	16
101	Is Usnic Acid a Promising Radical Scavenger?. <i>ACS Omega</i> , 2020 , 5, 17715-17720	3.9	5
100	A two-dimensional metallosupramolecular framework design based on coordination crosslinking of helical oligoamide nanorods. <i>Materials Advances</i> , 2020 , 1, 1134-1141	3.3	0
99	Nanoscale Probing of Cholesterol-Rich Domains in Single Bilayer Dimyristoyl-Phosphocholine Membranes Using Near-Field Spectroscopic Imaging. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9476-9484 ³	6.4	3
98	Substitution effects on the antiradical activity of hydralazine: a DFT analysis. <i>New Journal of Chemistry</i> , 2020 , 44, 16577-16583	3.6	8
97	In Silico Evaluation of the Radical Scavenging Mechanism of Mactanamide. <i>ACS Omega</i> , 2020 , 5, 24106-24110	3.1	9

96	The antioxidant activity of natural diterpenes: theoretical insights.. <i>RSC Advances</i> , 2020 , 10, 14937-14943	3.7	15
95	Theoretical Study on the Antioxidant Activity of Natural Depsidones. <i>ACS Omega</i> , 2020 , 5, 7895-7902	3.9	7
94	Is Indolinonic Hydroxylamine a Promising Artificial Antioxidant?. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 7777-7784	3.4	29
93	Interaction of Small Ionic Species With Phospholipid Membranes: The Role of Metal Coordination. <i>Frontiers in Materials</i> , 2019 , 5,	4	10
92	Antioxidant Motifs in Flavonoids: O-H versus C-H Bond Dissociation. <i>ACS Omega</i> , 2019 , 4, 8935-8942	3.9	28
91	Nano-viscosimetry analysis of the membrane disrupting action of the bee venom peptide melittin. <i>Scientific Reports</i> , 2019 , 9, 10841	4.9	8
90	Hydroxyl Radical Scavenging of Indole-3-Carbinol: A Mechanistic and Kinetic Study. <i>ACS Omega</i> , 2019 , 4, 19375-19381	3.9	12
89	Molybdenum (VI)-functionalized UiO-66 provides an efficient heterogeneous nanocatalyst in oxidation reactions. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e5225	3.1	8
88	Visualization and measurement of the local absorption coefficients of single bilayer phospholipid membranes using scanning near-field optical microscopy. <i>Biomedical Optics Express</i> , 2019 , 10, 6569-6579	3.5	4
87	Corrosion inhibition of iron surfaces with phosphatidic acid. <i>The EuroBiotech Journal</i> , 2019 , 3, 128-134	1.5	1
86	Anti-inflammatory activity of synthetic and natural glucoraphanin. <i>Journal of the Serbian Chemical Society</i> , 2019 , 84, 445-453	0.9	1
85	Antioxidant Activities of Monosubstituted Indolinonic Hydroxylamines: A Thermodynamic and Kinetic Study. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10672-10679	3.4	15
84	A theoretical study of the radical scavenging activity of natural stilbenes.. <i>RSC Advances</i> , 2019 , 9, 42020-42028	3.7	28
83	Dodecatungstocobaltate heteropolyanion encapsulation into MIL-101(Cr) metalorganic framework scaffold provides a highly efficient heterogeneous catalyst for methanolysis of epoxides. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4065	3.1	12
82	Oxidation reactions catalysed by molybdenum(VI) complexes grafted on UiO-66 metalorganic framework as an elegant nanoreactor. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e3958	3.1	10
81	Formation of Alkanethiol Supported Hybrid Membranes Revisited. <i>Biotechnology Journal</i> , 2018 , 13, e1800601	3.0	0
80	Tripeptides act as sticky ends to self-assemble into a bioscaffold. <i>APL Bioengineering</i> , 2018 , 2, 026104	6.6	14
79	Density functional theory study of the role of benzylic hydrogen atoms in the antioxidant properties of lignans. <i>Scientific Reports</i> , 2018 , 8, 12361	4.9	52

78	Growth of in Defined Media Is Dependent on Presence of Particulate Matter. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 567-575	3.2	14
77	Synthesis of aromatic and indole alpha-glucosinolates. <i>Carbohydrate Research</i> , 2018 , 455, 45-53	2.9	10
76	Nanoviscosity Measurements Revealing Domain Formation in Biomimetic Membranes. <i>Analytical Chemistry</i> , 2017 , 89, 1855-1862	7.8	10
75	A QCM-D and SAXS Study of the Interaction of Functionalised Lyotropic Liquid Crystalline Lipid Nanoparticles with siRNA. <i>ChemBioChem</i> , 2017 , 18, 921-930	3.8	14
74	Design Principles of Peptide Based Self-Assembled Nanomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1030, 51-94	3.6	6
73	Phenylalanine residues act as membrane anchors in the antimicrobial action of Aurein 1.2. <i>Biointerphases</i> , 2017 , 12, 05G605	1.8	17
72	Co-assembly of helical β -peptides: a self-assembled analogue of a statistical copolymer. <i>Pure and Applied Chemistry</i> , 2017 , 89, 1809-1816	2.1	2
71	Analytical approaches to study domain formation in biomimetic membranes. <i>Analyst, The</i> , 2017 , 142, 3062-3078	5	6
70	Metal organic framework-supported N -heterocyclic carbene palladium complex: A highly efficient and reusable heterogeneous catalyst for Suzuki-Miyaura C-C coupling reaction. <i>Microporous and Mesoporous Materials</i> , 2017 , 253, 102-111	5.3	39
69	Self-assembled nanomaterials based on beta (β) tetrapeptides. <i>Nanotechnology</i> , 2016 , 27, 135606	3.4	11
68	Membrane Core-Specific Antimicrobial Action of Cathelicidin LL-37 Peptide Switches Between Pore and Nanofibre Formation. <i>Scientific Reports</i> , 2016 , 6, 38184	4.9	45
67	Formation of planar unilamellar phospholipid membranes on oxidized gold substrate. <i>Biointerphases</i> , 2016 , 11, 031017	1.8	9
66	Cholesterol Rich Domains Identified in Unilamellar Supported Biomimetic Membranes via Nano-Viscosity Measurements. <i>Analytical Chemistry</i> , 2016 , 88, 5037-41	7.8	10
65	Structural analysis of bioinspired nano materials with synchrotron far IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11467-73	3.6	4
64	Subtle Differences in Initial Membrane Interactions Underpin the Selectivity of Small Antimicrobial Peptides. <i>ChemPlusChem</i> , 2015 , 80, 91-96	2.8	10
63	Viscoelastic changes measured in partially suspended single bilayer membranes. <i>Soft Matter</i> , 2015 , 11, 5571-9	3.6	20
62	Geometrically Precise Building Blocks: the Self-Assembly of β Peptides. <i>Chemistry and Biology</i> , 2015 , 22, 1417-1423		56
61	Supramolecular self-assembly of 14-helical nanorods with tunable linear and dendritic hierarchical morphologies. <i>New Journal of Chemistry</i> , 2015 , 39, 3280-3287	3.6	20

60	Controls and constrains of the membrane disrupting action of Aurein 1.2. <i>Scientific Reports</i> , 2015 , 5, 16378	3.8	37
59	Proteogenomic analysis reveals exosomes are more oncogenic than ectosomes. <i>Oncotarget</i> , 2015 , 6, 15375-96	3.3	168
58	Amino acid sequence controls the self-assembled superstructure morphology of N-acetylated tri-β-peptides. <i>Pure and Applied Chemistry</i> , 2015 , 87, 1021-1028	2.1	17
57	Labeling phospholipid membranes with lipid mimetic luminescent metal complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 2939-46	3.8	17
56	Real-time measurement of membrane conformational states induced by antimicrobial peptides: balance between recovery and lysis. <i>Scientific Reports</i> , 2014 , 4, 5479	4.9	51
55	Single-Molecule Imaging of Amyloid-β Protein (Aβ) of Alzheimer's Disease 2014 , 47-56		
54	Comparative proteomics evaluation of plasma exosome isolation techniques and assessment of the stability of exosomes in normal human blood plasma. <i>Proteomics</i> , 2013 , 13, 3354-64	4.8	397
53	Supramolecular self-assembly of N-acetyl-capped β-peptides leads to nano- to macroscale fiber formation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8266-70	16.4	56
52	Supramolecular Self-Assembly of N-Acetyl-Capped β-Peptides Leads to Nano- to Macroscale Fiber Formation. <i>Angewandte Chemie</i> , 2013 , 125, 8424-8428	3.6	11
51	Exploring the origin of tip-enhanced Raman scattering; preparation of efficient TERS probes with high yield. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 173-180	2.3	43
50	Surface immobilization of bio-functionalized cubosomes: sensing of proteins by quartz crystal microbalance. <i>Langmuir</i> , 2012 , 28, 620-7	4	28
49	Atomic Force Microscopy of Proteins 2011 , 249-276		
48	Interaction of quinoline antimalarial drugs with ferriprotoporphyrin IX, a solid state spectroscopy study. <i>Journal of Inorganic Biochemistry</i> , 2011 , 105, 1662-9	4.2	18
47	Near-field diffraction in a two-dimensional V-groove and its role in SERS. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20772-8	3.6	7
46	Electrochemiluminescence of surface bound microparticles of ruthenium complexes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 891-899		23
45	Oncocin (VDKPPYLPRPRPPRIYNR-NH ₂): a novel antibacterial peptide optimized against gram-negative human pathogens. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 5240-7	8.3	97
44	Correlation of atomic force microscopy and Raman micro-spectroscopy to study the effects of ex vivo treatment procedures on human red blood cells. <i>Analyst, The</i> , 2010 , 135, 525-30	5	33
43	The formation of gold nanoparticles using hydroquinone as a reducing agent through a localized pH change upon addition of NaOH to a solution of HAuCl ₄ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 370, 35-41	5.1	37

42	Organization of cytochrome P450 enzymes involved in sex steroid synthesis: PROTEIN-PROTEIN INTERACTIONS IN LIPID MEMBRANES. <i>Journal of Biological Chemistry</i> , 2009 , 284, 33224-32	5.4	40
41	Multifunctional protein nanocarriers for targeted nuclear gene delivery in nondividing cells. <i>FASEB Journal</i> , 2009 , 23, 2996-3006	0.9	20
40	Novel Engineered Ion Channel Provides Controllable Ion Permeability for Polyelectrolyte Microcapsules Coated with a Lipid Membrane. <i>Advanced Functional Materials</i> , 2009 , 19, 201-208	15.6	25
39	A resonance Raman spectroscopic investigation into the effects of fixation and dehydration on heme environment of hemoglobin. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1668-1674	2.3	48
38	Biochemical and biophysical characterization of a novel plant protein disulfide isomerase. <i>Biopolymers</i> , 2009 , 92, 35-43	2.2	16
37	Cell Penetrating Apidaecin Peptide Interactions with Biomimetic Phospholipid Membranes. <i>International Journal of Peptide Research and Therapeutics</i> , 2009 , 15, 139-146	2.1	22
36	Structure and homogeneity of pseudo-physiological phospholipid bilayers and their deposition characteristics on carboxylic acid terminated self-assembled monolayers. <i>Biomaterials</i> , 2009 , 30, 682-9	15.6	46
35	Solution structure and membrane interactions of the antimicrobial peptide fallaxidin 4.1a: an NMR and QCM study. <i>Biochemistry</i> , 2009 , 48, 11892-901	3.2	46
34	Molecular imaging and orientational changes of antimicrobial peptides in membranes. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 611, 313-5	3.6	3
33	Cholesterol and anionic phospholipids increase the binding of amyloidogenic transthyretin to lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 198-205	3.8	21
32	Evaporative self-assembly assisted synthesis of polymeric nanoparticles by surface acoustic wave atomization. <i>Nanotechnology</i> , 2008 , 19, 145301	3.4	77
31	Spring constant of microcantilevers in fundamental and higher eigenmodes. <i>Physical Review B</i> , 2008 , 78,	3.3	10
30	AFM study of morphological changes associated with electrochemical solid-solid transformation of three-dimensional crystals of TCNQ to metal derivatives (metal = Cu, Co, Ni; TCNQ = tetracyanoquinodimethane). <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 739-746	2.6	20
29	Specific and selective peptide-membrane interactions revealed using quartz crystal microbalance. <i>Biophysical Journal</i> , 2007 , 93, 3907-16	2.9	122
28	Synthesis of Ag and Au nanostructures in an ionic liquid: thermodynamic and kinetic effects underlying nanoparticle, cluster and nanowire formation. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2241		65
27	Transthyretin oligomers induce calcium influx via voltage-gated calcium channels. <i>Journal of Neurochemistry</i> , 2007 , 100, 446-57	6	58
26	Characterization and Analysis of Biomimetic Membranes 2007 , 89-126		1
25	Investigation of fluid cell resonances in intermittent contact mode atomic force microscopy. <i>Applied Physics Letters</i> , 2007 , 91, 023113	3.4	18

24	Novel amplitude and frequency demodulation algorithm for a virtual dynamic atomic force microscope. <i>Nanotechnology</i> , 2006 , 17, S173-7	3-4	35
23	Imaging bandwidth of the tapping mode atomic force microscope probe. <i>Physical Review B</i> , 2006 , 73,	3-3	24
22	Nanoscale resolution microchannel flow velocimetry by atomic force microscopy. <i>Applied Physics Letters</i> , 2006 , 89, 153123	3-4	9
21	Organogels derived from tetranitrated crown ethers. <i>Organic Letters</i> , 2006 , 8, 1371-3	6.2	25
20	High resolution scanning tunnelling microscopy of the beta-amyloid protein (Abeta1-40) of Alzheimer's disease suggests a novel mechanism of oligomer assembly. <i>Journal of Structural Biology</i> , 2006 , 155, 104-10	3-4	50
19	The Tertiary Structure of A β -40 Determined by Scanning Tunnelling Microscopy 2006 , 718-719		
18	A Study of Protein Electrochemistry on a Supported Membrane Electrode. <i>International Journal of Peptide Research and Therapeutics</i> , 2006 , 12, 217-224	2.1	10
17	Anomalies in nanostructure size measurements by AFM. <i>Physical Review B</i> , 2005 , 72,	3-3	34
16	Calcium-dependent open/closed conformations and interfacial energy maps of reconstituted hemichannels. <i>Journal of Biological Chemistry</i> , 2005 , 280, 10646-54	5-4	132
15	Dynamical properties of the Q-controlled atomic force microscope. <i>Applied Physics Letters</i> , 2004 , 85, 3232-3234	3-4	33
14	Semiconductive Polymer Blends: Correlating Structure with Transport Properties at the Nanoscale. <i>Advanced Materials</i> , 2004 , 16, 385-389	24	143
13	Nanoscale velocity-drag force relationship in thin liquid layers measured by atomic force microscopy. <i>Applied Physics Letters</i> , 2004 , 85, 3881-3883	3-4	16
12	Effect of step function-like perturbation on intermittent contact mode sensors: a response analysis. <i>Applied Surface Science</i> , 2003 , 210, 123-127	6.7	7
11	Surface energy maps of nanostructures: Atomic force microscopy and numerical simulation study. <i>Applied Physics Letters</i> , 2003 , 82, 3740-3742	3-4	31
10	The observability of poorly bound powder-like material on hard surface by atomic force microscopy. <i>Materials Science and Engineering C</i> , 2001 , 15, 29-32	8.3	4
9	Electrochemical reactions of cytochrome c on electrodes modified by fullerene films. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 497, 69-74	4.1	66
8	Raman spectroscopic and atomic force microscopic study of graphite ablation at 193 and 248 nm. <i>Applied Surface Science</i> , 2000 , 154-155, 22-28	6.7	21
7	Local laser-assisted chemical vapor deposition of diamond. <i>Applied Surface Science</i> , 2000 , 168, 5-8	6.7	10

6	Enhanced friction, adhesive and attractive forces imaged at etch-pit edges on highly-oriented pyrolytic graphite by scanning force microscopy. <i>Nanotechnology</i> , 2000 , 11, 37-43	3.4	8
5	Excimer laser irradiation induced formation of diamond-like carbon layer on graphite. <i>Applied Surface Science</i> , 1999 , 138-139, 174-178	6.7	15
4	Time-resolved shock-wave photography above 193-nm excimer laser-ablated graphite surface. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S133-S136	2.6	3
3	Time-resolved investigation of the transient surface reflection changes of subpicosecond excimer laser ablated liquids. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S191-S194	2.6	11
2	Diamond-like carbon layer formation on graphite by excimer laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, 659-661	2.6	15
1	Cantilever flexure, adhesive attractive and lateral force measurements on highly-oriented pyrolytic graphite by scanning force microscopy. <i>Vacuum</i> , 1998 , 50, 281-287	3.7	6