

Antoine P Van Muyden

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4536420/publications.pdf>

Version: 2024-02-01

91
papers

5,018
citations

136950

32
h-index

91884

69
g-index

95
all docs

95
docs citations

95
times ranked

6938
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous mass spectrometry analysis of cisplatin with oligonucleotide-peptide mixtures: implications for the mechanism of action. <i>Journal of Biological Inorganic Chemistry</i> , 2022, 27, 239.	2.6	1
2	Deconvolution of Light-Induced Ion Migration Phenomena by Statistical Analysis of Cathodoluminescence in Lead Halide-Based Perovskites. <i>Advanced Science</i> , 2022, 9, e2103729.	11.2	13
3	Single-crystalline TiO ₂ nanoparticles for stable and efficient perovskite modules. <i>Nature Nanotechnology</i> , 2022, 17, 598-605.	31.5	121
4	Triarylamine-Functionalized Imidazolyl-Capped Bithiophene Hole Transporting Material for Cost-Effective Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22053-22060.	8.0	8
5	Area-Scalable Zn ₂ SnO ₄ Electron Transport Layer for Highly Efficient and Stable Perovskite Solar Modules. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23297-23306.	8.0	4
6	Chlorination of arenes via the degradation of toxic chlorophenols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2122425119.	7.1	2
7	Utility of Core-Shell Nanomaterials in the Catalytic Transformations of Renewable Substrates. <i>Chemistry - A European Journal</i> , 2021, 27, 12-19.	3.3	4
8	Anion Exchange-Induced Crystal Engineering via Hot-Pressing Sublimation Affording Highly Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2000729.	5.8	6
9	Lignin First: Confirming the Role of the Metal Catalyst in Reductive Fractionation. <i>Jacs Au</i> , 2021, 1, 729-733.	7.9	28
10	Cut from the Same Cloth: Enamine-Derived Spirobifluorenes as Hole Transporters for Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 6059-6067.	6.7	7
11	Expanded Phase Distribution in Low Average Layer-Number 2D Perovskite Films: Toward Efficient Semitransparent Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2104868.	14.9	17
12	Dopant-Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. <i>Angewandte Chemie</i> , 2021, 133, 20652-20660.	2.0	6
13	Anticancer activity of RAPTA-EA1 in triple-negative BRCA1 proficient breast cancer cells: single and combined treatment with the PARP inhibitor olaparib. <i>Heliyon</i> , 2021, 7, e07749.	3.2	3
14	Drug Repurposing to Identify a Synergistic High-Order Drug Combination to Treat Sunitinib-Resistant Renal Cell Carcinoma. <i>Cancers</i> , 2021, 13, 3978.	3.7	12
15	Dopant-Free Hole Transport Materials Afford Efficient and Stable Inorganic Perovskite Solar Cells and Modules. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20489-20497.	13.8	56
16	Boosting hydrogen production via urea electrolysis on an amorphous nickel phosphide/graphene hybrid structure. <i>Journal of Materials Science</i> , 2021, 56, 17709-17720.	3.7	21
17	Efficient Solid-State Electrolytes Based on Aryl-Modified Imidazolium Ionic Crystals for Quantum Dot-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 10739-10747.	5.1	2
18	Aggregation of Halloysite Nanotubes in the Presence of Multivalent Ions and Ionic Liquids. <i>Langmuir</i> , 2021, 37, 11869-11879.	3.5	10

#	ARTICLE	IF	CITATIONS
19	Mechanistic Insights into the Role of the Bis(trifluoromethanesulfonyl)imide Ion in Coevaporated p <i>h</i> -n Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, , .	8.0	2
20	Society and Chemistry They Are a-Changin'. Chimia, 2021, 75, 895-896.	0.6	0
21	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. Nature Communications, 2021, 12, 6394.	12.8	98
22	Cycloaddition of Biogas-Contained CO ₂ into Epoxides via Ionic Polymer Catalysis: An Experimental and Process Simulation Study. Industrial & Engineering Chemistry Research, 2021, 60, 17942-17948.	3.7	1
23	Methanol production from CO ₂ via an integrated, formamide-assisted approach. Sustainable Energy and Fuels, 2020, 4, 1773-1779.	4.9	11
24	Nitrogen-Incorporated Cobalt Sulfide/Graphene Hybrid Catalysts for Overall Water Splitting. ChemSusChem, 2020, 13, 5112-5118.	6.8	48
25	An Efficient Approach to Fabricate Air-Stable Perovskite Solar Cells via Addition of a Self-Polymerizing Ionic Liquid. Advanced Materials, 2020, 32, e2003801.	21.0	84
26	Aom ² S: A new web-based application for DNA/RNA tandem mass spectrometry data interpretation. Rapid Communications in Mass Spectrometry, 2020, 34, e8927.	1.5	14
27	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 11428-11433.	13.7	107
28	CO ₂ Methanation via Amino Alcohol Relay Molecules Employing a Ruthenium Nanoparticle/Metal Organic Framework Catalyst. Angewandte Chemie - International Edition, 2020, 59, 16371-16375.	13.8	21
29	CO ₂ Methanation via Amino Alcohol Relay Molecules Employing a Ruthenium Nanoparticle/Metal Organic Framework Catalyst. Angewandte Chemie, 2020, 132, 16513.	2.0	7
30	Selective hydrogenation of lignin-derived compounds under mild conditions. Green Chemistry, 2020, 22, 3069-3073.	9.0	19
31	Acceptorless dehydrogenation and hydrogenation of N- and O-containing compounds on Pd ₃ Au ₁ (111) facets. Science Advances, 2020, 6, .	10.3	31
32	Selective Acceptorless Dehydrogenation of Primary Amines to Imines by Core-Shell Cobalt Nanoparticles. Angewandte Chemie, 2020, 132, 7571-7577.	2.0	6
33	Selective Acceptorless Dehydrogenation of Primary Amines to Imines by Core-Shell Cobalt Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 7501-7507.	13.8	37
34	Solvent- and Catalyst-Free Carbon Dioxide Capture and Reduction to Formate with Borohydride Ionic Liquid. ChemSusChem, 2020, 13, 2025-2031.	6.8	31
35	Masking specific effects of ionic liquid constituents at the solid-liquid interface by surface functionalization. Physical Chemistry Chemical Physics, 2020, 22, 24764-24770.	2.8	10
36	Low-dose photodynamic therapy promotes a cytotoxic immunological response in a murine model of pleural mesothelioma. European Journal of Cardio-thoracic Surgery, 2020, 58, 783-791.	1.4	6

#	ARTICLE	IF	CITATIONS
37	Ruthenium – A Non-essential Element that May Become Essential in Treating Chemoresistant Cancers. <i>Chimia</i> , 2019, 73, 332.	0.6	3
38	Recent Considerations in the Application of RAPTAC for Cancer Treatment and Perspectives for Its Combination with Immunotherapies. <i>Advanced Therapeutics</i> , 2019, 2, 1900042.	3.2	57
39	Introduction of a Bifunctional Cation Affords Perovskite Solar Cells Stable at Temperatures Exceeding 80 °C. <i>ACS Energy Letters</i> , 2019, 4, 2989-2994.	17.4	18
40	En route to CO ₂ -containing renewable materials: catalytic synthesis of polycarbonates and non-isocyanate polyhydroxyurethanes derived from cyclic carbonates. <i>Chemical Communications</i> , 2019, 55, 1360-1373.	4.1	85
41	Cellular responses of BRCA1-defective HCC1937 breast cancer cells induced by the antimetastasis ruthenium(II) arene compound RAPT-T. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2019, 24, 612-622.	4.9	12
42	Discovery of a Highly Active Catalyst for Hydrogenolysis of C–O Bonds via Systematic, Multi-metallic Catalyst Screening. <i>ChemCatChem</i> , 2019, 11, 2743-2752.	3.7	7
43	Metal-Sulfide Catalysts Derived from Lignosulfonate and their Efficient Use in Hydrogenolysis. <i>ChemSusChem</i> , 2019, 12, 3271-3277.	6.8	11
44	Oxidative cleavage of β-O-4 bonds in lignin model compounds with a single-atom Co catalyst. <i>Green Chemistry</i> , 2019, 21, 1974-1981.	9.0	65
45	Versatile Route to trans-Platinum(II) Complexes via Manipulation of a Coordinated 3-(Pyridin-3-yl)propanoic Acid Ligand. <i>Inorganic Chemistry</i> , 2019, 58, 7200-7208.	4.0	9
46	Vascular-targeted low dose photodynamic therapy stabilizes tumor vessels by modulating pericyte contractility. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 550-561.	2.1	15
47	Inkjet-Printed Mesoporous TiO ₂ and Perovskite Layers for High Efficiency Perovskite Solar Cells. <i>Energy Technology</i> , 2019, 7, 317-324.	3.8	67
48	Indirect CO ₂ Methanation: Hydrogenolysis of Cyclic Carbonates Catalyzed by Ru-Modified Zeolite Produces Methane and Diols. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 557-560.	13.8	28
49	Intricacies of Cation–Anion Combinations in Imidazolium Salt-Catalyzed Cycloaddition of CO ₂ Into Epoxides. <i>ACS Catalysis</i> , 2018, 8, 2589-2594.	11.2	129
50	Oxazolium Iodide Modified Perovskites for Solar Cell Fabrication. <i>ChemPlusChem</i> , 2018, 83, 279-284.	2.8	10
51	Homogeneous Catalysis for Sustainable Hydrogen Storage in Formic Acid and Alcohols. <i>Chemical Reviews</i> , 2018, 118, 372-433.	47.7	805
52	Catalytic Ionic-Liquid Membranes: The Convergence of Ionic-Liquid Catalysis and Ionic-Liquid Membrane Separation Technologies. <i>ChemPlusChem</i> , 2018, 83, 7-18.	2.8	22
53	Drug Repurposing Approach Identifies a Synergistic Drug Combination of an Antifungal Agent and an Experimental Organometallic Drug for Melanoma Treatment. <i>Molecular Pharmaceutics</i> , 2018, 15, 116-126.	4.6	16
54	Fluorescent Benzothiazinone Analogues Efficiently and Selectively Label Dpre1 in Mycobacteria and Actinobacteria. <i>ACS Chemical Biology</i> , 2018, 13, 3184-3192.	3.4	16

#	ARTICLE	IF	CITATIONS
55	Understanding the interactions of diruthenium anticancer agents with amino acids. Journal of Biological Inorganic Chemistry, 2018, 23, 1159-1164.	2.6	13
56	Chemo-manipulation of tumor blood vessels by a metal-based anticancer complex enhances antitumor therapy. Scientific Reports, 2018, 8, 10263.	3.3	11
57	Efficient cleavage of aryl ether C–O linkages by Rh–Ni and Ru–Ni nanoscale catalysts operating in water. Chemical Science, 2018, 9, 5530-5535.	7.4	57
58	Combination of ruthenium(II)-arene complex [Ru(1-6-p-cymene)Cl ₂ (pta)] (RAPTA-C) and the epidermal growth factor receptor inhibitor erlotinib results in efficient angiostatic and antitumor activity. Scientific Reports, 2017, 7, 43005.	3.3	97
59	Expression proteomics study to determine metallodrug targets and optimal drug combinations. Scientific Reports, 2017, 7, 1590.	3.3	19
60	Polyimidazolium Salts: Robust Catalysts for the Cycloaddition of Carbon Dioxide into Carbonates in Solvent-Free Conditions. ChemSusChem, 2017, 10, 2728-2735.	6.8	53
61	Biochemical and biophysical characterization of ruthenation of BRCA1 RING protein by RAPTA complexes and its E3 ubiquitin ligase activity. Biochemical and Biophysical Research Communications, 2017, 488, 355-361.	2.1	7
62	Benzimidazolium salt-based solid-state electrolytes afford efficient quantum-dot sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 13526-13534.	10.3	23
63	An efficient Pt nanoparticle–ionic liquid system for the hydrodeoxygenation of bio-derived phenols under mild conditions. Green Chemistry, 2017, 19, 5435-5441.	9.0	27
64	Versatile Tool for the Analysis of Metal–Protein Interactions Reveals the Promiscuity of Metallodrug–Protein Interactions. Analytical Chemistry, 2017, 89, 11985-11989.	6.5	30
65	Differences in cisplatin distribution in sensitive and resistant ovarian cancer cells: a TEM/NanoSIMS study. Metallomics, 2017, 9, 1413-1420.	2.4	34
66	Leaching from Palladium Nanoparticles in an Ionic Liquid Leads to the Formation of Ionic Monometallic Species. Journal of Physical Chemistry Letters, 2017, 8, 3452-3456.	4.6	5
67	Towards Extending Solar Cell Lifetimes: Addition of a Fluorous Cation to Triple Cation-Based Perovskite Films. ChemSusChem, 2017, 10, 3846-3853.	6.8	49
68	Synthesis of Cross-Linked Ionic Poly(styrenes) and their Application as Catalysts for the Synthesis of Carbonates from CO ₂ and Epoxides. ChemPlusChem, 2017, 82, 144-151.	2.8	18
69	The Differential Distribution of RAPTA-T in Non-Invasive and Invasive Breast Cancer Cells Correlates with Its Anti-Invasive and Anti-Metastatic Effects. International Journal of Molecular Sciences, 2017, 18, 1869.	4.1	25
70	Functionalized Ionic (Poly)Styrenes and their Application as Catalysts in the Cycloaddition of CO ₂ to Epoxides. Helvetica Chimica Acta, 2016, 99, 821-829.	1.6	12
71	Synthesis of cyclic carbonates from diols and CO ₂ catalyzed by carbenes. Chemical Communications, 2016, 52, 10787-10790.	4.1	71
72	Extending the Lifetime of Perovskite Solar Cells using a Perfluorinated Dopant. ChemSusChem, 2016, 9, 2708-2714.	6.8	62

#	ARTICLE	IF	CITATIONS
73	Anti-angiogenic properties of chlorambucil derivatives with fluorous and hydrocarbon appendages. <i>MedChemComm</i> , 2016, 7, 1596-1603.	3.4	3
74	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. <i>Energy and Environmental Science</i> , 2016, 9, 3448-3455.	30.8	35
75	Optimization of drug combinations using Feedback System Control. <i>Nature Protocols</i> , 2016, 11, 302-315.	12.0	86
76	Thiazolium carbene catalysts for the fixation of CO ₂ onto amines. <i>Chemical Communications</i> , 2016, 52, 2497-2500.	4.1	124
77	Synthesis of carbonates and related compounds incorporating CO ₂ using ionic liquid-type catalysts: State-of-the-art and beyond. <i>Journal of Catalysis</i> , 2016, 343, 52-61.	6.2	183
78	Angiostatic treatment prior to chemo- or photodynamic therapy improves anti-tumor efficacy. <i>Scientific Reports</i> , 2015, 5, 8990.	3.3	58
79	A streamlined search technology for identification of synergistic drug combinations. <i>Scientific Reports</i> , 2015, 5, 14508.	3.3	72
80	Antiangiogenic and Anticancer Properties of Bifunctional Ruthenium(II)- <i>p</i> -Cymene Complexes: Influence of Pendant Perfluorinated Chains. <i>Molecular Pharmaceutics</i> , 2015, 12, 3089-3096.	4.6	27
81	Aqueous-phase hydrogenation of alkenes and arenes: The growing role of nanoscale catalysts. <i>Catalysis Today</i> , 2015, 247, 96-103.	4.4	29
82	NanoSIMS analysis of an isotopically labelled organometallic ruthenium(II) drug to probe its distribution and state in vitro. <i>Chemical Communications</i> , 2015, 51, 16486-16489.	4.1	39
83	In vivo anti-tumor activity of the organometallic ruthenium(II)-arene complex [Ru(⁶ IPr)(<i>p</i> -cymene)Cl ₂ (pta)] (RAPTA-C) in human ovarian and colorectal carcinomas. <i>Chemical Science</i> , 2014, 5, 4742-4748.	7.4	224
84	Cycloaddition of CO ₂ to epoxides catalyzed by imidazolium-based polymeric ionic liquids. <i>Green Chemistry</i> , 2013, 15, 1584.	9.0	169
85	Transformation of biomass via the selective hydrogenolysis of CO bonds by nanoscale metal catalysts. <i>Current Opinion in Chemical Engineering</i> , 2013, 2, 178-183.	7.8	42
86	Synthesis, Molecular Structure and Cytotoxicity of Molecular Materials Based on Water Soluble Half-Sandwich Rh(III) and Ir(III) Tetranuclear Metalla-Cycles. <i>Materials</i> , 2013, 6, 5352-5366.	2.9	28
87	Click-Functionalized Ru(II) Complexes for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1004-1012.	19.5	22
88	Hydrodeoxygenation of Lignin-Derived Phenols into Alkanes by Using Nanoparticle Catalysts Combined with Brønsted Acidic Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5549-5553.	13.8	309
89	Synthesis and anticancer activity of chalcogenide derivatives and platinum(II) and palladium(II) complexes derived from a polar ferrocene phosphanyl-carboxamide. <i>Applied Organometallic Chemistry</i> , 2010, 24, 392-397.	3.5	14
90	Selective Degradation of Wood Lignin over Noble-Metal Catalysts in a Two-Step Process. <i>ChemSusChem</i> , 2008, 1, 626-629.	6.8	500

#	ARTICLE	IF	CITATIONS
91	Arene hydrogenation by homogeneous catalysts: fact or fiction?. Dalton Transactions, 2003, , 2964.	3.3	207