

# Antoine P Van Muyden

## List of Publications by Year in descending order

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91  
papers

5,018  
citations

156536

32  
h-index

104191

69  
g-index

95  
all docs

95  
docs citations

95  
times ranked

7811  
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.	1.1	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.	5.6	13
3	Single-crystalline TiO <sub>2</sub> nanoparticles for stable and efficient perovskite modules. <i>Nature Nanotechnology</i> , 2022, 17, 598-605.	15.6	121
4	Triarylamine-Functionalized Imidazolyl-Capped Bithiophene Hole Transporting Material for Cost-Effective Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 22053-22060.	4.0	8
5	Area-Scalable Zn <sub>2</sub> SnO <sub>4</sub> Electron Transport Layer for Highly Efficient and Stable Perovskite Solar Modules. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23297-23306.	4.0	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.	3.3	2
7	Utility of Core-Shell Nanomaterials in the Catalytic Transformations of Renewable Substrates. <i>Chemistry - A European Journal</i> , 2021, 27, 12-19.	1.7	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.	3.1	6
9	Lignin First: Confirming the Role of the Metal Catalyst in Reductive Fractionation. <i>Jacs Au</i> , 2021, 1, 729-733.	3.6	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.	3.2	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.	7.8	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.	1.6	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.	1.4	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.	1.7	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.	7.2	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.	1.7	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.	2.5	2
18	Aggregation of Halloysite Nanotubes in the Presence of Multivalent Ions and Ionic Liquids. <i>Langmuir</i> , 2021, 37, 11869-11879.	1.6	10

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19	Mechanistic Insights into the Role of the Bis(trifluoromethanesulfonyl)imide Ion in Coevaporated p <i>h</i> -Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, , .	4.0	2
20	Society and Chemistry They Are a-Changin'. Chimia, 2021, 75, 895-896.	0.3	0
21	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. Nature Communications, 2021, 12, 6394.	5.8	98
22	Cycloaddition of Biogas-Contained CO <sub>2</sub> into Epoxides via Ionic Polymer Catalysis: An Experimental and Process Simulation Study. Industrial & Engineering Chemistry Research, 2021, 60, 17942-17948.	1.8	1
23	Methanol production from CO <sub>2</sub> via an integrated, formamide-assisted approach. Sustainable Energy and Fuels, 2020, 4, 1773-1779.	2.5	11
24	Nitrogen-Incorporated Cobalt Sulfide/Graphene Hybrid Catalysts for Overall Water Splitting. ChemSusChem, 2020, 13, 5112-5118.	3.6	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.	11.1	84
26	Am <sup>2+</sup> S: A new web-based application for DNA/RNA tandem mass spectrometry data interpretation. Rapid Communications in Mass Spectrometry, 2020, 34, e8927.	0.7	14
27	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. Journal of the American Chemical Society, 2020, 142, 11428-11433.	6.6	107
28	CO <sub>2</sub> Methanation via Amino Alcohol Relay Molecules Employing a Ruthenium Nanoparticle/Metal Organic Framework Catalyst. Angewandte Chemie - International Edition, 2020, 59, 16371-16375.	7.2	21
29	CO <sub>2</sub> Methanation via Amino Alcohol Relay Molecules Employing a Ruthenium Nanoparticle/Metal Organic Framework Catalyst. Angewandte Chemie, 2020, 132, 16513.	1.6	7
30	Selective hydrogenation of lignin-derived compounds under mild conditions. Green Chemistry, 2020, 22, 3069-3073.	4.6	19
31	Acceptorless dehydrogenation and hydrogenation of N- and O-containing compounds on Pd <sub>3</sub> Au <sub>1</sub> (111) facets. Science Advances, 2020, 6, .	4.7	31
32	Selective Acceptorless Dehydrogenation of Primary Amines to Imines by Core-Shell Cobalt Nanoparticles. Angewandte Chemie, 2020, 132, 7571-7577.	1.6	6
33	Selective Acceptorless Dehydrogenation of Primary Amines to Imines by Core-Shell Cobalt Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 7501-7507.	7.2	37
34	Solvent- and Catalyst-Free Carbon Dioxide Capture and Reduction to Formate with Borohydride Ionic Liquid. ChemSusChem, 2020, 13, 2025-2031.	3.6	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.	1.3	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.	0.6	6

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37	Ruthenium – A Non-essential Element that May Become Essential in Treating Chemoresistant Cancers. <i>Chimia</i> , 2019, 73, 332.	0.3	3
38	Recent Considerations in the Application of RAPTAA€C for Cancer Treatment and Perspectives for Its Combination with Immunotherapies. <i>Advanced Therapeutics</i> , 2019, 2, 1900042.	1.6	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.	8.8	18
40	<i>En route</i> to CO <sub>2</sub> -containing renewable materials: catalytic synthesis of polycarbonates and non-isocyanate polyhydroxyurethanes derived from cyclic carbonates. <i>Chemical Communications</i> , 2019, 55, 1360-1373.	2.2	85
41	Cellular responses of BRCA1-defective HCC1937 breast cancer cells induced by the antimetastasis ruthenium(II) arene compound RAPT-A. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2019, 24, 612-622.	2.2	12
42	Discovery of a Highly Active Catalyst for Hydrogenolysis of CâˆO Bonds via Systematic, Multi-metallic Catalyst Screening. <i>ChemCatChem</i> , 2019, 11, 2743-2752.	1.8	7
43	Metal-Sulfide Catalysts Derived from Lignosulfonate and their Efficient Use in Hydrogenolysis. <i>ChemSusChem</i> , 2019, 12, 3271-3277.	3.6	11
44	Oxidative cleavage of Î²-O-4 bonds in lignin model compounds with a single-atom Co catalyst. <i>Green Chemistry</i> , 2019, 21, 1974-1981.	4.6	65
45	Versatile Route to <i>trans</i> -Platinum(II) Complexes via Manipulation of a Coordinated 3-(Pyridin-3-yl)propanoic Acid Ligand. <i>Inorganic Chemistry</i> , 2019, 58, 7200-7208.	1.9	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.	1.1	15
47	Inkjet-Printed Mesoporous TiO <sub>2</sub> and Perovskite Layers for High Efficiency Perovskite Solar Cells. <i>Energy Technology</i> , 2019, 7, 317-324.	1.8	67
48	Indirect CO <sub>2</sub> Methanation: Hydrogenolysis of Cyclic Carbonates Catalyzed by Ru-Modified Zeolite Produces Methane and Diols. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 557-560.	7.2	28
49	Intricacies of Cation-Anion Combinations in Imidazolium Salt-Catalyzed Cycloaddition of CO <sub>2</sub> Into Epoxides. <i>ACS Catalysis</i> , 2018, 8, 2589-2594.	5.5	129
50	Oxazolium Iodide Modified Perovskites for Solar Cell Fabrication. <i>ChemPlusChem</i> , 2018, 83, 279-284.	1.3	10
51	Homogeneous Catalysis for Sustainable Hydrogen Storage in Formic Acid and Alcohols. <i>Chemical Reviews</i> , 2018, 118, 372-433.	23.0	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.	1.3	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.	2.3	16
54	Fluorescent Benzothiazinone Analogues Efficiently and Selectively Label Dpre1 in Mycobacteria and Actinobacteria. <i>ACS Chemical Biology</i> , 2018, 13, 3184-3192.	1.6	16

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55	Understanding the interactions of diruthenium anticancer agents with amino acids. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1159-1164.	1.1	13
56	Chemo-manipulation of tumor blood vessels by a metal-based anticancer complex enhances antitumor therapy. <i>Scientific Reports</i> , 2018, 8, 10263.	1.6	11
57	Efficient cleavage of aryl ether C–O linkages by Rh–Ni and Ru–Ni nanoscale catalysts operating in water. <i>Chemical Science</i> , 2018, 9, 5530-5535.	3.7	57
58	Combination of ruthenium(II)-arene complex [Ru(1-6-p-cymene)Cl <sub>2</sub> (pta)] (RAPTA-C) and the epidermal growth factor receptor inhibitor erlotinib results in efficient angiostatic and antitumor activity. <i>Scientific Reports</i> , 2017, 7, 43005.	1.6	97
59	Expression proteomics study to determine metallodrug targets and optimal drug combinations. <i>Scientific Reports</i> , 2017, 7, 1590.	1.6	19
60	Polyimidazolium Salts: Robust Catalysts for the Cycloaddition of Carbon Dioxide into Carbonates in Solvent-Free Conditions. <i>ChemSusChem</i> , 2017, 10, 2728-2735.	3.6	53
61	Biochemical and biophysical characterization of ruthenation of BRCA1 RING protein by RAPTA complexes and its E3 ubiquitin ligase activity. <i>Biochemical and Biophysical Research Communications</i> , 2017, 488, 355-361.	1.0	7
62	Benzimidazolium salt-based solid-state electrolytes afford efficient quantum-dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13526-13534.	5.2	23
63	An efficient Pt nanoparticle–ionic liquid system for the hydrodeoxygenation of bio-derived phenols under mild conditions. <i>Green Chemistry</i> , 2017, 19, 5435-5441.	4.6	27
64	Versatile Tool for the Analysis of Metal–Protein Interactions Reveals the Promiscuity of Metallodrug–Protein Interactions. <i>Analytical Chemistry</i> , 2017, 89, 11985-11989.	3.2	30
65	Differences in cisplatin distribution in sensitive and resistant ovarian cancer cells: a TEM/NanoSIMS study. <i>Metallomics</i> , 2017, 9, 1413-1420.	1.0	34
66	Leaching from Palladium Nanoparticles in an Ionic Liquid Leads to the Formation of Ionic Monometallic Species. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3452-3456.	2.1	5
67	Towards Extending Solar Cell Lifetimes: Addition of a Fluorous Cation to Triple Cation-Based Perovskite Films. <i>ChemSusChem</i> , 2017, 10, 3846-3853.	3.6	49
68	Synthesis of Cross-Linked Ionic Poly(styrenes) and their Application as Catalysts for the Synthesis of Carbonates from CO <sub>2</sub> and Epoxides. <i>ChemPlusChem</i> , 2017, 82, 144-151.	1.3	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. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1869.	1.8	25
70	Functionalized Ionic (Poly)Styrenes and their Application as Catalysts in the Cycloaddition of CO <sub>2</sub> to Epoxides. <i>Helvetica Chimica Acta</i> , 2016, 99, 821-829.	1.0	12
71	Synthesis of cyclic carbonates from diols and CO <sub>2</sub> catalyzed by carbenes. <i>Chemical Communications</i> , 2016, 52, 10787-10790.	2.2	71
72	Extending the Lifetime of Perovskite Solar Cells using a Perfluorinated Dopant. <i>ChemSusChem</i> , 2016, 9, 2708-2714.	3.6	62

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73	Anti-angiogenic properties of chlorambucil derivatives with fluorous and hydrocarbon appendages. <i>MedChemComm</i> , 2016, 7, 1596-1603.	3.5	3
74	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. <i>Energy and Environmental Science</i> , 2016, 9, 3448-3455.	15.6	35
75	Optimization of drug combinations using Feedback System Control. <i>Nature Protocols</i> , 2016, 11, 302-315.	5.5	86
76	Thiazolium carbene catalysts for the fixation of CO <sub>2</sub> onto amines. <i>Chemical Communications</i> , 2016, 52, 2497-2500.	2.2	124
77	Synthesis of carbonates and related compounds incorporating CO <sub>2</sub> using ionic liquid-type catalysts: State-of-the-art and beyond. <i>Journal of Catalysis</i> , 2016, 343, 52-61.	3.1	183
78	Angiostatic treatment prior to chemo- or photodynamic therapy improves anti-tumor efficacy. <i>Scientific Reports</i> , 2015, 5, 8990.	1.6	58
79	A streamlined search technology for identification of synergistic drug combinations. <i>Scientific Reports</i> , 2015, 5, 14508.	1.6	72
80	Antiangiogenic and Anticancer Properties of Bifunctional Ruthenium(II)- <i>p</i> -Cymene Complexes: Influence of Pendant Perfluorous Chains. <i>Molecular Pharmaceutics</i> , 2015, 12, 3089-3096.	2.3	27
81	Aqueous-phase hydrogenation of alkenes and arenes: The growing role of nanoscale catalysts. <i>Catalysis Today</i> , 2015, 247, 96-103.	2.2	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.	2.2	39
83	<i>In vivo</i> anti-tumor activity of the organometallic ruthenium(II)-arene complex [Ru( <sup>6</sup> IPr-cymene)Cl <sub>2</sub> (pta)] (RAPTA-C) in human ovarian and colorectal carcinomas. <i>Chemical Science</i> , 2014, 5, 4742-4748.	3.7	224
84	Cycloaddition of CO <sub>2</sub> to epoxides catalyzed by imidazolium-based polymeric ionic liquids. <i>Green Chemistry</i> , 2013, 15, 1584.	4.6	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.	3.8	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.	1.3	28
87	Click-Functionalized Ru(II) Complexes for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1004-1012.	10.2	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.	7.2	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.	1.7	14
90	Selective Degradation of Wood Lignin over Noble-Metal Catalysts in a Two-Step Process. <i>ChemSusChem</i> , 2008, 1, 626-629.	3.6	500

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91	Arene hydrogenation by homogeneous catalysts: fact or fiction?. Dalton Transactions, 2003, , 2964.	1.6	207