Andrea Sartorel

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Beyond Water Oxidation: Hybrid, Molecular-Based Photoanodes for the Production of Value-Added Organics. Frontiers in Chemistry, 2022, 10, . | 1.8 | 7 |
| 2 | Waterâ€Assisted Concerted Protonâ€Electron Transfer at Co(II)â€Aquo Sites in Polyoxotungstates With Photogenerated Ru III (bpy) 3 3+ Oxidant. ChemPhysChem, 2021, 22, 1208-1218. | 1.0 | 3 |
| 3 | Microwaveâ€Assisted 1,3â€Dipolar Cycloaddition of Azomethine Ylides to [60]Fullerene: Thermodynamic Control of Bisâ€Addition with Ionic Liquids Additives. European Journal of Organic Chemistry, 2021, 2021, 3545-3551. | 1.2 | 3 |
| 4 | Fel Intermediates in N2O2 Schiff Base Complexes: Effect of Electronic Character of the Ligand and of the Proton Donor on the Reactivity with Carbon Dioxide. Energies, 2021, 14, 5723. | 1.6 | 3 |
| 5 | Artificial photosynthesis: photoanodes based on polyquinoid dyes onto mesoporous tin oxide surface. Photochemical and Photobiological Sciences, 2021, 20, 1243-1255. | 1.6 | 10 |
| 6 | Basicity as a Thermodynamic Descriptor of Carbanions Reactivity with Carbon Dioxide: Application to the Carboxylation of \hat{l}_{\pm},\hat{l}^2 -Unsaturated Ketones. Frontiers in Chemistry, 2021, 9, 783993. | 1.8 | 2 |
| 7 | Transparent Polymeric Formulations Effective against SARS-CoV-2 Infection. ACS Applied Materials & Interfaces, 2021, 13, 54648-54655. | 4.0 | 9 |
| 8 | Naphthochromenones: Organic Bimodal Photocatalysts Engaging in Both Oxidative and Reductive Quenching Processes. Angewandte Chemie - International Edition, 2020, 59, 1302-1312. | 7.2 | 48 |
| 9 | Carbon Dioxide Reduction Mediated by Iron Catalysts: Mechanism and Intermediates That Guide Selectivity. ACS Omega, 2020, 5, 21309-21319. | 1.6 | 25 |
| 10 | Electrochemical Conversion of CO ₂ to CO by a Competent Fe ^I Intermediate Bearing a Schiff Base Ligand. ChemSusChem, 2020, 13, 4111-4120. | 3.6 | 11 |
| 11 | Photoanodes for water oxidation with visible light based on a pentacyclic quinoid organic dye enabling proton-coupled electron transfer. Chemical Communications, 2020, 56, 2248-2251. | 2.2 | 19 |
| 12 | Chelating di(N-heterocyclic carbene) complexes of iridium(III): Structural analysis, electrochemical characterisation and catalytic oxidation of water. Journal of Organometallic Chemistry, 2020, 917, 121260. | 0.8 | 7 |
| 13 | Tailored Crafting of Core–Shell Cobalt-Hydroxides@Polyfluoroaniline Nanostructures with Strongly Coupled Interfaces and Improved Hydrophilicity to Enable Efficient Oxygen Evolution. ACS Sustainable Chemistry and Engineering, 2020, 8, 6127-6133. | 3.2 | 12 |
| 14 | Novel iridium complexes with N-heterocyclic dicarbene ligands in light-driven water oxidation catalysis: photon management, ligand effect and catalyst evolution. Dalton Transactions, 2020, 49, 2696-2705. | 1.6 | 11 |
| 15 | Tracking Ultrafast Charge Separation in a PBI-based Biomimetic Complex for Oxygen Evolution. , 2020, , | | 0 |
| 16 | Fluorinated Zn ^{II} Porphyrins for Dye-Sensitized Aqueous Photoelectrosynthetic Cells. ACS Applied Materials & Interfaces, 2019, 11, 32895-32908. | 4.0 | 19 |
| 17 | Mechanistic Insights into Light-Activated Catalysis for Water Oxidation. European Journal of Inorganic Chemistry, 2019, 2019, 2013-2013. | 1.0 | 0 |
| 18 | Light-Driven Water Oxidation with the Ir-blue Catalyst and the Ru(bpy) ₃ ²⁺ /S ₂ O ₈ ^{2–} Cycle: Photogeneration of Active Dimers, Electron-Transfer Kinetics, and Light Synchronization for Oxygen Evolution with High Quantum Efficiency. Inorganic Chemistry, 2019, 58, 16537-16545. | 1.9 | 19 |

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| 19 | Clean rhodium nanoparticles prepared by laser ablation in liquid for high performance electrocatalysis of the hydrogen evolution reaction. Nanoscale Advances, 2019, 1, 4296-4300. | 2.2 | 17 |
| 20 | Mechanistic Insights into Lightâ€Activated Catalysis for Water Oxidation. European Journal of Inorganic Chemistry, 2019, 2019, 2027-2039. | 1.0 | 20 |
| 21 | Hierarchical organization of perylene bisimides and polyoxometalates for photo-assisted water oxidation. Nature Chemistry, 2019, 11, 146-153. | 6.6 | 132 |
| 22 | Visible Light Driven Photoanodes for Water Oxidation Based on Novel r-GO/β-Cu2V2O7/TiO2 Nanorods Composites. Nanomaterials, 2018, 8, 544. | 1.9 | 23 |
| 23 | Proton coupled electron transfer from Co ₃ O ₄ nanoparticles to photogenerated Ru(bpy) ₃ ³⁺ : base catalysis and buffer effect. Sustainable Energy and Fuels, 2018, 2, 1951-1956. | 2.5 | 12 |
| 24 | Ruthenium based photosensitizer/catalyst supramolecular architectures in light driven water oxidation. Inorganica Chimica Acta, 2017, 454, 171-175. | 1.2 | 18 |
| 25 | Cobalt based water oxidation catalysis with photogenerated Ru(bpy) 3 3+ : Different kinetics and competent species starting from a molecular polyoxometalate and metal oxide nanoparticles capped with a bisphosphonate alendronate pendant. Catalysis Today, 2017, 290, 39-50. | 2.2 | 20 |
| 26 | Enhanced Electrocatalytic Oxygen Evolution in Au–Fe Nanoalloys. Angewandte Chemie - International Edition, 2017, 56, 6589-6593. | 7.2 | 72 |
| 27 | Enhanced Electrocatalytic Oxygen Evolution in Au–Fe Nanoalloys. Angewandte Chemie, 2017, 129, 6689-6693. | 1.6 | 5 |
| 28 | Photo-assisted water oxidation by high-nuclearity cobalt-oxo cores: tracing the catalyst fate during oxygen evolution turnover. Green Chemistry, 2017, 19, 2416-2426. | 4.6 | 40 |
| 29 | Hydrogen Evolution by Fe ^{III} Molecular Electrocatalysts Interconverting between Mono and Diâ€Nuclear Structures in Aqueous Phase. ChemSusChem, 2017, 10, 4430-4435. | 3.6 | 9 |
| 30 | Tuning Iridium Photocatalysts and Light Irradiation for Enhanced CO ₂ Reduction. ACS Catalysis, 2017, 7, 154-160. | 5.5 | 73 |
| 31 | Photoinduced hydrogen evolution with new tetradentate cobalt(<scp>ii</scp>) complexes based on the TPMA ligand. Dalton Transactions, 2016, 45, 14764-14773. | 1.6 | 38 |
| 32 | Hydrogen peroxide activation by fluorophilic polyoxotungstates for fast and selective oxygen transfer catalysis. Dalton Transactions, 2016, 45, 14544-14548. | 1.6 | 11 |
| 33 | Heterogeneous and Homogeneous Routes in Water Oxidation Catalysis Starting from Cu ^{II} Complexes with Tetraaza Macrocyclic Ligands. Chemistry - an Asian Journal, 2016, 11, 1281-1287. | 1.7 | 43 |
| 34 | Water oxidation electrocatalysis with iron oxide nanoparticles prepared via laser ablation. Journal of Energy Chemistry, 2016, 25, 246-250. | 7.1 | 23 |
| 35 | Working the Other Way Around: Photocatalytic Water Oxidation Triggered by Reductive Quenching of the Photoexcited Chromophore. Journal of Physical Chemistry C, 2015, 119, 2371-2379. | 1.5 | 29 |
| 36 | Water oxidation catalysis upon evolution of molecular Co(<scp>iii</scp>) cubanes in aqueous media. Faraday Discussions, 2015, 185, 121-141. | 1.6 | 29 |

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| 37 | A Bioinspired System for Light-Driven Water Oxidation with a Porphyrin Sensitizer and a Tetrametallic Molecular Catalyst. European Journal of Inorganic Chemistry, 2015, 2015, 3467-3477. | 1.0 | 22 |
| 38 | Natural and artificial photosynthesis: general discussion. Faraday Discussions, 2015, 185, 187-217. | 1.6 | 3 |
| 39 | Polyoxometalates Catalysts for Sustainable Oxidations and Energy Applications. , 2014, , 586-630. | | 2 |
| 40 | Oxygenation by Ruthenium Monosubstituted Polyoxotungstates in Aqueous Solution: Experimental and Computational Dissection of a Ru(III)–Ru(V) Catalytic Cycle. Chemistry - A European Journal, 2014, 20, 10932-10943. | 1.7 | 11 |
| 41 | Nâ€Heterocyclic Dicarbene Iridium(III) Catalysts Enabling Water Oxidation under Visible Light Irradiation. European Journal of Inorganic Chemistry, 2014, 2014, 665-675. | 1.0 | 44 |
| 42 | N-Heterocyclic Dicarbene Iridium(III) Catalysts Enabling Water Oxidation under Visible Light Irradiation. European Journal of Inorganic Chemistry, 2014, 2014, 568-568. | 1.0 | 3 |
| 43 | Positive graphene by chemical design: tuning supramolecular strategies for functional surfaces. Chemical Communications, 2014, 50, 885-887. | 2.2 | 26 |
| 44 | Photocatalytic Water Oxidation by a Mixedâ€Valent Mn ^{III} ₃ Mn ^{IV} O ₃ Manganese Oxo Core that Mimics the Natural Oxygenâ€Evolving Center. Angewandte Chemie - International Edition, 2014, 53, 11182-11185. | 7.2 | 180 |
| 45 | Innentitelbild: Photocatalytic Water Oxidation by a Mixed-Valent MnIII3MnIVO3Manganese Oxo Core that Mimics the Natural Oxygen-Evolving Center (Angew. Chem. 42/2014). Angewandte Chemie, 2014, 126, 11280-11280. | 1.6 | 0 |
| 46 | A Co(<scp>ii</scp>)–Ru(<scp>ii</scp>) dyad relevant to light-driven water oxidation catalysis. Physical Chemistry Chemical Physics, 2014, 16, 12000-12007. | 1.3 | 22 |
| 47 | Surface Immobilization of a Tetra-Ruthenium Substituted Polyoxometalate Water Oxidation Catalyst Through the Employment of Conducting Polypyrrole and the Layer-by-Layer (LBL) Technique. ACS Applied Materials & Interfaces, 2014, 6, 8022-8031. | 4.0 | 54 |
| 48 | Dynamic Motion of Ruâ€Polyoxometalate Ions (POMs) on Functionalized Few‣ayer Graphene. Small, 2013, 9, 3922-3927. | 5.2 | 22 |
| 49 | Light driven water oxidation by a single site cobalt salophen catalyst. Chemical Communications, 2013, 49, 9941. | 2.2 | 83 |
| 50 | Knitting the Catalytic Pattern of Artificial Photosynthesis to a Hybrid Graphene Nanotexture. ACS Nano, 2013, 7, 811-817. | 7.3 | 93 |
| 51 | Tetrametallic molecular catalysts for photochemical water oxidation. Chemical Society Reviews, 2013, 42, 2262-2280. | 18.7 | 310 |
| 52 | Water oxidation surface mechanisms replicated by a totally inorganic tetraruthenium–oxo molecular complex. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4917-4922. | 3.3 | 80 |
| 53 | Salophen and salen oxo vanadium complexes as catalysts of sulfides oxidation with H2O2: Mechanistic insights. Catalysis Today, 2012, 192, 44-55. | 2.2 | 55 |
| 54 | Shaping the beating heart of artificial photosynthesis: oxygenic metal oxide nano-clusters. Energy and Environmental Science, 2012, 5, 5592. | 15.6 | 93 |

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| 55 | Water Oxidation Catalysis by Molecular Metal-Oxides. Energy Procedia, 2012, 22, 78-87. | 1.8 | 4 |
| 56 | Is [Co4(H2O)2(α-PW9O34)2]10â^' a genuine molecular catalyst in photochemical water oxidation? Answers from time-resolved hole scavenging experiments. Chemical Communications, 2012, 48, 8808. | 2.2 | 90 |
| 57 | Light-driven wateroxidation with a molecular tetra-cobalt(iii) cubanecluster. Faraday Discussions, 2012, 155, 177-190. | 1.6 | 110 |
| 58 | Photoinduced Water Oxidation by a Tetraruthenium Polyoxometalate Catalyst: Ion-pairing and Primary Processes with Ru(bpy) ₃ ²⁺ Photosensitizer. Inorganic Chemistry, 2012, 51, 7324-7331. | 1.9 | 98 |
| 59 | Photocatalytic Water Oxidation: Tuning Light-Induced Electron Transfer by Molecular Co ₄ O ₄ Cores. Journal of the American Chemical Society, 2012, 134, 11104-11107. | 6.6 | 196 |
| 60 | Organicâ€Inorganic Molecular Nanoâ€5ensors: A Bisâ€Dansylated Tweezerâ€Like Fluoroionophore Integrating a Polyoxometalate Core. European Journal of Organic Chemistry, 2012, 2012, 281-289. | 1.2 | 23 |
| 61 | Photoinduced water oxidation using dendrimeric Ru(II) complexes as photosensitizers. Coordination Chemistry Reviews, 2011, 255, 2594-2601. | 9.5 | 118 |
| 62 | Hybrid Polyoxometalates: Merging Organic and Inorganic Domains for Enhanced Catalysis and Energy Applications. Israel Journal of Chemistry, 2011, 51, 259-274. | 1.0 | 34 |
| 63 | Artificial Photosynthesis Challenges: Water Oxidation at Nanostructured Interfaces. Topics in Current Chemistry, 2011, 303, 121-150. | 4.0 | 34 |
| 64 | Oxygenic polyoxometalates: a new class of molecular propellers. Chemical Communications, 2011, 47, 1716. | 2.2 | 47 |
| 65 | Tailored Functionalization of Carbon Nanotubes for Electrocatalytic Water Splitting and Sustainable Energy Applications. ChemSusChem, 2011, 4, 1447-1451. | 3.6 | 64 |
| 66 | Reactive Zr ^{IV} and Hf ^{IV} Butterfly Peroxides on Polyoxometalate Surfaces: Bridging the Gap between Homogeneous and Heterogeneous Catalysis. Chemistry - A European Journal, 2011, 17, 8371-8378. | 1.7 | 77 |
| 67 | Dendron-functionalized multiwalled carbon nanotubes incorporating polyoxometalates for water-splitting catalysis. Pure and Applied Chemistry, 2011, 83, 1529-1542. | 0.9 | 23 |
| 68 | Polyoxometalateâ€Based Nâ€Heterocyclic Carbene (NHC) Complexes for Palladiumâ€Mediated Cī£¿C Coupling and Chloroaryl Dehalogenation Catalysis. Chemistry - A European Journal, 2010, 16, 10662-10666. | 1.7 | 55 |
| 69 | Efficient water oxidation at carbon nanotube–polyoxometalate electrocatalytic interfaces. Nature Chemistry, 2010, 2, 826-831. | 6.6 | 459 |
| 70 | Ruthenium polyoxometalate water splitting catalyst: very fast hole scavenging from photogenerated oxidants. Chemical Communications, 2010, 46, 3152. | 2.2 | 165 |
| 71 | Peroxo-Zr/Hf-Containing Undecatungstosilicates and -Germanates. Inorganic Chemistry, 2010, 49, 7-9. | 1.9 | 75 |
| 72 | Photo-induced water oxidation with tetra-nuclear ruthenium sensitizer and catalyst: A unique 4 × 4 ruthenium interplay triggering high efficiency with low-energy visible light. Chemical Communications, 2010, 46, 4725. | 2.2 | 162 |

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| 73 | Ironâ€Substituted Polyoxotungstates as Inorganic Synzymes: Evidence for a Biomimetic Pathway in the Catalytic Oxygenation of Catechols. Chemistry - A European Journal, 2009, 15, 7854-7858. | 1.7 | 32 |
| 74 | Optically Active Polyoxotungstates Bearing Chiral Organophosphonate Substituents. European Journal of Inorganic Chemistry, 2009, 2009, 5164-5174. | 1.0 | 49 |
| 75 | Water Oxidation at a Tetraruthenate Core Stabilized by Polyoxometalate Ligands: Experimental and Computational Evidence To Trace the Competent Intermediates. Journal of the American Chemical Society, 2009, 131, 16051-16053. | 6.6 | 195 |
| 76 | H ₂ O ₂ activation by heteropolyacids with defect structures: the case of <i>γ</i> â€{(XO ₄)W ₁₀ O ₃₂] ^{nâ^'} (X = Si, Ge, n | ∋= 8; > | Xâ €‰ = |
| 77 | Chiral Strandbergâ€Type Molybdates [(RPO ₃) ₂ Mo ₅ O ₁₅] ^{2â^'} as Molecular Gelators: Selfâ€Assembled Fibrillar Nanostructures with Enhanced Optical Activity. Angewandte Chemie - International Edition. 2008. 47. 7275-7279. | 7.2 | 113 |
| 78 | Polyoxometalate Embedding of a Tetraruthenium(IV)-oxo-core by Template-Directed Metalation of [γ-SiW ₁₀ O ₃₆] ^{8â^'} : A Totally Inorganic Oxygen-Evolving Catalyst. Journal of the American Chemical Society, 2008, 130, 5006-5007. | 6.6 | 571 |
| 79 | Catalytic Strategies for Sustainable Oxidations in Water. Synthesis, 2008, 2008, 1971-1978. | 1.2 | 23 |
| 80 | Fast Catalytic Epoxidation with H ₂ O ₂ and [γ-SiW ₁₀ O ₃₆ (PhPO) ₂] ⁴⁻ in lonic Liquids under Microwave Irradiation. Journal of Organic Chemistry, 2007, 72, 8954-8957. | 1.7 | 55 |
| 81 | Asymmetric Tetraprotonation of γ-[(SiO4)W10O32]8â^' Triggers a Catalytic Epoxidation Reaction: Perspectives in the Assignment of the Active Catalyst. Angewandte Chemie - International Edition, 2007, 46, 3255-3258. | 7.2 | 72 |
| 82 | Aerobic oxidation of cis-cyclooctene by iron-substituted polyoxotungstates: Evidence for a metal initiated auto-oxidation mechanism. Journal of Molecular Catalysis A, 2007, 262, 36-40. | 4.8 | 32 |
| 83 | Hybrid Polyoxotungstates as Second-Generation POM-Based Catalysts for Microwave-Assisted H2O2Activation. Organic Letters, 2006, 8, 3671-3674. | 2.4 | 110 |
| 84 | Bio-inspired oxidations with polyoxometalate catalysts. Journal of Molecular Catalysis A, 2006, 251, 93-99. | 4.8 | 62 |
| 85 | Relativistic DFT Calculations of Polyoxotungstate 183W NMR Spectra: Insight into their Solution Structure. ChemPhysChem, 2003, 4, 517-519. | 1.0 | 37 |
| 86 | Electrospray Behavior of Lacunary Keggin-Type Polyoxotungstates [XW11O39]p (X = Si, P): Mass Spectrometric Evidence for a Concentration-Dependent Incorporation of an MOn+ (M = WVI, MoVI, VV) Unit into the Polyoxometalate Vacancy. European Journal of Inorganic Chemistry, 2003, 2003, 699-704. | 1.0 | 58 |
| 87 | Microwave-Assisted Rapid Incorporation of Ruthenium into Lacunary Keggin-Type Polyoxotungstates: One-Step Synthesis,99Ru,183W NMR Characterization and Catalytic Activity of [PW11O39Rull(DMSO)]5–. European Journal of Inorganic Chemistry, 2000, 2000, 17-20. | 1.0 | 73 |
| 88 | Photo-induced water oxidation: New photocatalytic processes and materials. Photochemistry, 0, , 274-294. | 0.2 | 7 |