

# Richard M Moutloali

## List of Publications by Year in descending order

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57  
papers

1,117  
citations

471061

17  
h-index

414034

32  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1498  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of electrospinning parameters on the morphology and diameter of poly(vinylidene fluoride) (PVDF) nanofibers. <i>Journal of Membrane Science</i> , 2018, 554, 195-210.	1.7	164
2	Preparation of antifouling polyvinylpyrrolidone (PVP 40K) modified polyethersulfone (PES) ultrafiltration (UF) membrane for water purification. <i>Physics and Chemistry of the Earth</i> , 2014, 67-69, 125-131.	1.2	109
3	Municipal wastewater treatment technologies: A review. <i>Procedia Manufacturing</i> , 2019, 35, 1018-1024.	1.9	63
4	Photoelectrocatalytic water treatment systems: degradation, kinetics and intermediate products studies of sulfamethoxazole on a TiO <sub>2</sub> /exfoliated graphite electrode. <i>RSC Advances</i> , 2017, 7, 40571-40580.	1.7	49
5	Mussel-inspired tannic acid/polyethyleneimine assembling positively-charged membranes with excellent cation permselectivity. <i>Science of the Total Environment</i> , 2022, 817, 153051.	3.9	44
6	High temperature thermochromic polydiacetylene supported on polyacrylonitrile nanofibers. <i>Polymer</i> , 2018, 149, 106-116.	1.8	36
7	Zeolitic Imidazolate Framework-8-Encapsulated Nanoparticle of Ag/Cu Composites Supported on Graphene Oxide: Synthesis and Antibacterial Activity. <i>ACS Omega</i> , 2020, 5, 9626-9640.	1.6	36
8	Adsorptive removal of lead from acid mine drainage using cobalt-methylimidazolate framework as an adsorbent: kinetics, isotherm, and regeneration. <i>Environmental Science and Pollution Research</i> , 2019, 26, 3330-3339.	2.7	29
9	Monolayer-Protected Clusters of Gold Nanoparticles: Impacts of Stabilizing Ligands on the Heterogeneous Electron Transfer Dynamics and Voltammetric Detection. <i>Langmuir</i> , 2010, 26, 9061-9068.	1.6	28
10	Hyperbranched polyethyleneimine/multi-walled carbon nanotubes polyethersulfone membrane incorporated with Fe-Cu bimetallic nanoparticles for water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103962.	3.3	28
11	Electrocatalytic sensor devices: (I) cyclopentadienylnickel(II) thiolato Schiff base monolayer self-assembled on gold*1. <i>Talanta</i> , 2004, 64, 30-38.	2.9	27
12	Recovery of gold(III) and iridium(IV) using magnetic layered double hydroxide (Fe <sub>3</sub> O <sub>4</sub> /Mg-Al-LDH) nanocomposite: Equilibrium studies and application to real samples. <i>Hydrometallurgy</i> , 2020, 197, 105447.	1.8	27
13	Fabrication and Assessment of ZnO Modified Polyethersulfone Membranes for Fouling Reduction of Bovine Serum Albumin. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-8.	1.2	25
14	A urea-modified polydiacetylene-based high temperature reversible thermochromic sensor: Characterisation and evaluation of properties as a function of temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 671-679.	4.0	24
15	Incorporation of a novel Ag@Cu@ZIF-8@GO nanocomposite into polyethersulfone membrane for fouling and bacterial resistance. <i>Journal of Membrane Science</i> , 2021, 618, 118733.	4.1	23
16	Reversible sulfur dioxide reactions with cyclopentadienylnickel(II) organochalcogenide complexes. <i>Journal of Organometallic Chemistry</i> , 1998, 564, 37-45.	0.8	19
17	Development of TiO <sub>2</sub> -Carbon Composite Acid Catalyst for Dehydration of Fructose to 5-Hydroxymethylfurfural. <i>Catalysts</i> , 2019, 9, 126.	1.6	18

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19	Cobalt/zinc based metal organic frameworks as an effective adsorbent for improved removal of As(V) and Cr(VI) in a wide pH range. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1845-1855.	2.6	18
20	Antifouling Properties of Silver-Zinc Oxide Polyamide Thin Film Composite Membrane and Rejection of 2-Chlorophenol and 2,4-Dichlorophenol. <i>Membranes</i> , 2019, 9, 96.	1.4	16
21	Greywater reclamation: A comparison of the treatment performance of UiO-66-NH <sub>2</sub> @GO nanocomposites membrane filtration with and without activated carbon pretreatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104906.	3.3	15
22	Functionalized PVDF Membrane-immobilized Fe/Ni Bimetallic Nanoparticles for Catalytic Degradation of Methyl Orange Dye: A Comparative Study. <i>Materials Today: Proceedings</i> , 2015, 2, 4070-4080.	0.9	12
23	Development of ZSM-22/Polyethersulfone Membrane for Effective Salt Rejection. <i>Polymers</i> , 2020, 12, 1446.	2.0	12
24	Cyclopentadienylnickel thiolate complexes: synthesis, molecular structures and electrochemical detection of sulfur dioxide adducts. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 387-394.	0.8	11
25	Synthesis and Reactions of Mixed N,P Ligands. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1955-1963.	1.0	11
26	Enhancing the photocatalytic degradation of selected chlorophenols using Ag/zno nanocomposites. <i>MRS Advances</i> , 2018, 3, 2129-2136.	0.5	10
27	Synthesis of Porous Organic Polymer-Based Solid-Acid Catalysts for 5-Hydroxymethylfurfural Production from Fructose. <i>Catalysts</i> , 2019, 9, 656.	1.6	10
28	Stable zeolitic imidazolate framework-8 supported onto graphene oxide hybrid ultrafiltration membranes with improved fouling resistance and water flux. <i>Chemical Engineering Journal Advances</i> , 2020, 1, 100005.	2.4	10
29	Microwave-assisted graft synthesis and characterization of poly(methacrylic acid)-grafted polyethersulfone towards dense hydrophilic and low-fouling membranes for water treatment. <i>Physics and Chemistry of the Earth</i> , 2018, 106, 107-115.	1.2	9
30	Dechlorination of 3,3',4,4'-tetrachlorobiphenyl (PCB77) in water, by nickel/iron nanoparticles immobilized on L-lysine/PAA/PVDF membrane. <i>Physics and Chemistry of the Earth</i> , 2013, 66, 60-67.	1.2	8
31	Bimetallic nickel complexes with bridging dithiolato Schiff base ligands: synthesis, mass spectral characterisation and electrochemistry. <i>Journal of Organometallic Chemistry</i> , 2002, 656, 262-269.	0.8	7
32	Pyrolyzed carbon-supported Co-N <sub>4</sub> electrocatalysts using hexamethylene-tetramine as nitrogen source. <i>Rare Metals</i> , 2011, 30, 68-70.	3.6	7
33	Chemical Grafting of Polystyrene Sodium Sulfonate (PSS) onto Polyethersulfone (PES) Powder and Effect on the Characteristics of the Resultant Ultrafiltration Membranes. <i>Materials Today: Proceedings</i> , 2015, 2, 3957-3963.	0.9	7
34	The Synthesis and Characterization of Novel Bi-/Trimetallic Nanoparticles and Their Nanocomposite Membranes for Envisaged Water Treatment. <i>Membranes</i> , 2020, 10, 232.	1.4	7
35	Synthesis and structures of copper and gold complexes of the P,N ligands RNC(But)C(H)RPPH <sub>2</sub> (R=SiMe <sub>3</sub> , H). <i>Inorganica Chimica Acta</i> , 2009, 362, 3172-3180.	1.2	6
36	Effect of the Incorporation of ZIF-8@GO into the Thin-Film Membrane on Salt Rejection and BSA Fouling. <i>Membranes</i> , 2022, 12, 436.	1.4	6

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37	Synthesis and thermal behaviour of cyclopentadienylnickel(II) thiolato Schiff base complexes. Molecular structures of Ni( $\eta$ -5-C <sub>5</sub> H <sub>5</sub> )(PBu <sub>3</sub> )(SC <sub>6</sub> H <sub>4</sub> NC(H)C <sub>6</sub> H <sub>4</sub> C <sub>6</sub> H <sub>5</sub> ) and Ni( $\eta$ -5-C <sub>5</sub> H <sub>5</sub> )(PBu <sub>3</sub> )(SC <sub>6</sub> H <sub>4</sub> NC(H)C <sub>6</sub> H <sub>4</sub> OC <sub>4</sub> H <sub>9</sub> ). Journal of Organometallic Chemistry, 2001, 629, 171-181.	0.8	5
38	Antifouling Polyethersulfone-Petrol Soot Nanoparticles Composite Ultrafiltration Membrane for Dye Removal in Wastewater. Membranes, 2021, 11, 361.	1.4	5
39	Development of Ag/GO Incorporated onto PES Membrane with Improved Anti-Fouling Property. Journal of Membrane and Separation Technology, 2015, 4, 98-109.	0.4	5
40	[2,6-Bis(isopropylthiomethyl)phenyl- $\eta$ -3S,C1,S $\alpha$ ] $\epsilon$ 2]bromopalladium(II). Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m109-m110.	0.4	4
41	Effect of the Zwitterion, p(MAO-DMPA), on the Internal Structure, Fouling Characteristics, and Dye Rejection Mechanism of PVDF Membranes. Membranes, 2020, 10, 323.	1.4	4
42	Corrugated iron sheets for electrocoagulation of sulphate ions in industrial effluents. Case Studies in Chemical and Environmental Engineering, 2020, 2, 100061.	2.9	4
43	Mesogenic behaviour of (4-alkoxybenzylideneamino)bromobenzene, (4-alkoxybenzylideneamino)benzenethiols, and thiolatonickel complexes of the thiols. Liquid Crystals, 2006, 33, 321-326.	0.9	3
44	Process optimisation through Response Surface Methodology for treatment of acid mine drainage using carbon nanotubes-infused thin film nanocomposite membranes. Physics and Chemistry of the Earth, 2021, 124, 103008.	1.2	3
45	An In Situ Incorporation of Acrylic Acid and ZnO Nanoparticles into Polyamide Thin Film Composite Membranes for Their Effect on Membrane pH Responsive Behavior. Membranes, 2021, 11, 910.	1.4	3
46	Low-Cost High Performance Polyamide Thin Film Composite (Cellulose Triacetate/Graphene Oxide) Membranes for Forward Osmosis Desalination from Palm Fronds. Membranes, 2022, 12, 6.	1.4	3
47	Mild and Low-Cost Synthetic Process for Monodispersive Platinum Nanoparticles on Carbon Aerogel. Materials Science Forum, 0, 809-810, 53-58.	0.3	2
48	Polymer Nanocomposite of PVDF/Organoclay-Copper Nanoparticles hybrid: Synthesis and Characterization. Materials Today: Proceedings, 2015, 2, 3921-3931.	0.9	2
49	Recovery of Palladium and Gold from PGM Ore and Concentrate Leachates Using Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @Mg-Al-LDH Nanocomposite. Minerals (Basel, Switzerland), 2021, 11, 917.	0.8	2
50	Organic Phase Cyclopentadienylnickelthiolate Sensor System for Electrochemical Determination of Sulfur Dioxide. Electroanalysis, 2004, 16, 1944-1948.	1.5	1
51	In $\alpha$ module Chemical Modification and Assessment of Polyethersulfone Capillary Ultrafiltration Membranes. Procedia Engineering, 2012, 44, 1452-1453.	1.2	1
52	2 $\alpha$ ( $\langle$ scp $\rangle$ Na $\epsilon$ 3 $\alpha$ CSulfopropyl $\alpha$ EN $\langle$ /scp $\rangle$ ,Na $\epsilon$ dimethyl ammonium)ethyl methacrylate modified graphene oxide embedded into cellulose acetate ultrafiltration membranes for improved performance. Journal of Applied Polymer Science, 2022, 139, .	1.3	1
53	Catalytic Microfiltration Membranes with Fe/Ni Bimetallic Nanoparticles for the Reductive Degradation of Azo Dyes in Water. Procedia Engineering, 2012, 44, 446-448.	1.2	0
54	Synthesis and Characterisation of Ultrafiltration PES Membrane Embedded with Ag Decorated MgO Nanocomposite. Procedia Engineering, 2012, 44, 2102-2103.	1.2	0

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55	Preparation and Characterization of Ag@TiO <sub>2</sub> Modified Polyethersulfone (PES) Membranes for Potential Applications in Water Treatment. , 2019, , 331-349.		0
56	The Effect of Zeolitic Imidazole Framework-8@Graphene Oxide on the Performance of Polymeric Membranes Used for Wasterwater Treatment. Springer Series in Materials Science, 2022, , 225-252.	0.4	0
57	Influence of the Zeolite ZSM-22 Precursor on a UF-PES Selective Substrate Layer for Salts Rejection. Membranes, 2022, 12, 553.	1.4	0