

APPENDIX

GAs in Chemistry

Joule - ELSEVIER

#	TITLE	DOI
JOULE #1	Living intracellular inorganic-microorganism biohybrid system for efficient solar hydrogen generation	10.1016/j.joule.2022.08.002
JOULE #2	Empirically grounded technology forecasts and the energy transition	10.1016/j.joule.2022.08.009
JOULE #3	Enabling a low-carbon electricity system for Southern Africa	10.1016/j.joule.2022.06.030
JOULE #4	Biosynthesis of polycyclopropanated high energy biofuels	10.1016/j.joule.2022.05.011
JOULE#5	Determinants of Chinese and Western-backed development finance in the global electricity sector	10.1016/j.joule.2022.05.003
JOULE#6	Countdown to perovskite space launch: Guidelines to performing relevant radiation-hardness experiments	10.1016/j.joule.2022.03.004
JOULE#7	China's decarbonization and energy security plans will reduce seaborne coal imports: Results from an installation-level model	10.1016/j.joule.2022.03.008
JOULE#8	Atom-by-atom identification of catalytic active sites in operando conditions by quantitative noise detection	10.1016/j.joule.2022.02.010
JOULE#9	Private risk and social resilience in liberalized electricity markets	10.1016/j.joule.2022.01.004
JOULE#10	Next-generation thermoelectric cooling modules based on high-performance Mg ₃ (Bi,Sb) ₂ material	10.1016/j.joule.2021.11.008

Advanced Materials - WILEY

#	TITLE	DOI
AM#1	Filamented Light (FLight) Biofabrication of Highly Aligned Tissue-Engineered Constructs	10.1002/adma.202204301
AM#2	Beyond Human Touch Perception: An Adaptive Robotic Skin Based on Gallium Microgranules for Pressure Sensory Augmentation	10.1002/adma.202204805
AM#3	Nondestructive Photopatterning of Heavy-Metal-Free Quantum Dots	10.1002/adma.202205504
AM#4	Unraveling the Mechanisms of the Apis mellifera Honeycomb Construction by 4D X-ray Microscopy	10.1002/adma.202202361
AM#5	Real-Time Measurement of Cell Mechanics as a Clinically Relevant Readout of an In Vitro Lung Fibrosis Model Established on a Bioinspired Basement Membrane	10.1002/adma.202205083
AM#6	Universal Hopping Motion Protected by Structural Topology	10.1002/adma.202203275
AM#7	3D Printing Flexible Sodium-Ion Microbatteries with Ultrahigh Areal Capacity and Robust Rate Capability	10.1002/adma.202205569

AM#8	Suppressing Charged Cation Antisites via Se Vapor Annealing Enables p-Type Dopability in AgBiSe ₂ -SnSe Thermoelectrics	10.1002/adma.202204132
AM#9	An Ultrahigh Rate and Stable Zinc Anode by Facet-Matching-Induced Dendrite Regulation	10.1002/adma.202203835
AM#10	A Reactive Superhydrophobic Platform for Living Photolithography	10.1002/adma.202203619

Accounts of Chemical Research – AMERICAN SOCIETY OF CHEMISTRY

#	TITLE	DOI
ACR#1	Fluorescence-Activating and Absorption-Shifting Tags for Advanced Imaging and Biosensing	10.1021/acs.accounts.2c00098
ACR#2	On the Role of Flexibility for Adsorptive Separation	10.1021/acs.accounts.2c00418
ACR#3	Unraveling the Chemistry of High Valent Arylcopper Compounds and Their Roles in Copper-Catalyzed Arene C-H Bond Transformations Using Synthetic Macrocycles	10.1021/acs.accounts.2c00316
ACR#4	Uncovering the Nature of Active Sites during Electrocatalytic Reactions by In Situ Synchrotron-Based Spectroscopic Techniques	10.1021/acs.accounts.2c00212
ACR#5	Nitric-Oxide-Modulatory Materials for Biomedical Applications	10.1021/acs.accounts.2c00159
ACR#6	Solvation Effects on Quantum Tunneling Reactions	10.1021/acs.accounts.2c00151
ACR #7	Protein-Calixarene Complexation: From Recognition to Assembly	10.1021/acs.accounts.2c00206
ACR#8	Quantitative Modeling of Electron Dynamics and the Effect of	10.1021/acs.accounts.2c00073
ACR#9	Analysis of Complex Mixtures by Chemosensing NMR Using para-Hydrogen-Induced Hyperpolarization	10.1021/acs.accounts.1c00796
ACR#10	Oligopyrrolic Cages: From Classic Molecular Constructs to Chemically Responsive Polytopic Receptors	10.1021/acs.accounts.2c00120

Energy & Environmental Science – ROYAL SOCIETY OF CHEMISTRY

#	TITLE	DOI
EES#1	Solar-driven H ₂ O ₂ production via cooperative auto- and photocatalytic oxidation in fine-tuned reaction media	10.1039/D2EE02504C
EES#2	Machine learning-assisted ultrafast flash sintering of high-performance and flexible silver-selenide thermoelectric devices	10.1039/D2EE01844F
EES#3	Fully-integrated electrochemical system that captures CO ₂ from flue gas to produce value-added chemicals at ambient conditions	10.1039/D2EE03396H
EES#4	Regulating deposition kinetics via a novel additive-assisted chemical bath deposition technology enables fabrication of 10.57%-efficiency Sb ₂ Se ₃ solar cells	10.1039/D2EE02261C
EES#5	Cement clinker precursor production in an electrolyser	10.1039/D2EE02349K

EES#6	Halogenated thiophenes serve as solvent additives in mediating morphology and achieving efficient organic solar cells	10.1039/D2EE02553A
EES#7	A strongly complexed solid polymer electrolyte enables a stable solid state high-voltage lithium metal battery	10.1039/D2EE02904A
EES#8	Durable flexible direct current generation through the tribovoltaic effect in contact-separation mode	10.1039/D2EE02762C
EES#9	Polarity and moisture induced trans-grain-boundaries 2D/3D coupling structure for flexible perovskite solar cells with high mechanical reliability and efficiency	10.1039/D2EE01879A
EES#10	A trade-off between ligand and strain effects optimizes the oxygen reduction activity of Pt alloys	10.1039/D2EE01850K

Microchimica Acta – SPRINGER

#	TITLE	DOI
MA#1	Zeolitic imidazolate frameworks as light-responsive oxidase-like mimics for the determination of adenosine triphosphate and discrimination of phenolic pollutants	10.1007/s00604-022-05602-0
MA#2	A sensing platform based on Cu-MOF encapsulated Dawson-type polyoxometalate crystal material for electrochemical detection of xanthine	10.1007/s00604-022-05601-1
MA#3	Ratiometric electrochemical sensing platform based on N-doped MOF-derived CoNi/C for the determination of p-phenylenediamine in hair dyes	10.1007/s00604-022-05600-2
MA#4	Carbon quantum dots with pH-responsive orange-/red-light emission for fluorescence imaging of intracellular pH	10.1007/s00604-022-05605-x
MA#5	Ultrasensitive detection of multiple cancer biomarkers by a triple cascade amplification strategy in combination with single particle inductively coupled plasma mass spectrometry	10.1007/s00604-022-05604-y
MA#6	Photoelectrochemical determination of cardiac troponin I based on rod-like g-C ₃ N ₅ @MnO ₂ heterostructure	10.1007/s00604-022-05547-4
MA#7	Photoelectrochemical biosensor based on DNA aptamers and dual nano-semiconductor heterojunctions for accurate and selective sensing of chloramphenicol	10.1007/s00604-022-05573-2
MA#8	Fluorescent copper conjugated curcumin cysteine nanoprobe for selective determination of Fe ³⁺ and G-quadruplex DNA	10.1007/s00604-022-05594-x
MA#9	An enzyme-free turn-on fluorescent strategy for nucleic acid detection based on hybridization chain reaction and transferable silver nanoclusters	10.1007/s00604-022-05591-0
MA#10	Sensitive electrochemical detection of polymorphisms in IL6 and TGFβ1 genes from ovarian cancer DNA patients using EcoRI and DNA hairpin-modified gold electrodes	10.1007/s00604-022-05595-w

GAs in Medicine

Journal of Infection – ELSEVIER

#	TITLE	DOI
Jl#1	Impact of urinary tract infection-causative microorganisms on the progression to bloodstream infection: A propensity score-matched analysis	10.1016/j.jinf.2022.08.039
Jl#2	The impact of enterovirus A71 vaccination program on hand, foot, and mouth disease in Guangdong, China: A longitudinal surveillance study	10.1016/j.jinf.2022.06.020
Jl#3	Serology versus nucleic acid amplification to diagnose acute hepatitis E, United Kingdom, 2014–18	10.1016/j.jinf.2022.06.017
Jl#4	Clinical characteristics and outcome of infective endocarditis due to Abiotrophia and Granulicatella compared to Viridans group streptococci	10.1016/j.jinf.2022.05.023
Jl#5	Unraveling the hurdles of a large COVID-19 epidemiological investigation by viral genomics	10.1016/j.jinf.2022.05.013
Jl#6	The adjuvanted recombinant zoster vaccine co-administered with the 13-valent pneumococcal conjugate vaccine in adults aged ≥ 50 years: A randomized trial	10.1016/j.jinf.2021.12.033
Jl#7	Salmonella Typhimurium fepB negatively regulates C. elegans behavioral plasticity	10.1016/j.jinf.2021.12.043
Jl#8	Nasopharyngeal Microbiota as an early severity biomarker in COVID-19 hospitalised patients	10.1016/j.jinf.2021.12.030
Jl#9	Confirmation of SARS-CoV-2 airborne dissemination indoors using “COVID-19 traps”	10.1016/j.jinf.2021.12.017
Jl#10	MAMDC2, a gene highly expressed in microglia in experimental models of Alzheimers Disease, positively regulates the innate antiviral response during neurotropic virus infection	10.1016/j.jinf.2021.12.004

European Journal of Heart Failure – WILEY

#	TITLE	DOI
EJHF#1	Short-term effects of dapagliflozin on maximal functional capacity in heart failure with reduced ejection fraction (DAPA-V02): a randomized clinical trial	10.1002/ejhf.2560
EJHF#2	Renal effects of empagliflozin in patients hospitalized for acute heart failure: from the EMPULSE trial	10.1002/ejhf.2681
EJHF#3	Liver tests and outcomes in heart failure with reduced ejection fraction: findings from DAPA-HF	10.1002/ejhf.2649
EJHF#4	Biomarker-driven prognostic models in chronic heart failure with preserved ejection fraction: the EMPEROR-Preserved trial	10.1002/ejhf.2607
EJHF#5	Heart failure outcomes according to heart rate and effects of empagliflozin in patients of the EMPEROR-Preserved trial	10.1002/ejhf.2677
EJHF#6	Dapagliflozin and New York Heart Association functional class in heart failure with mildly reduced or preserved ejection fraction: the DELIVER trial	10.1002/ejhf.2652
EJHF#7	Longitudinal trajectories in renal function before and after heart failure hospitalization among patients with heart failure with preserved ejection fraction in the PARAGON-HF trial	10.1002/ejhf.2638

EJHF#8	Sacubitril/valsartan versus ramipril for patients with acute myocardial infarction: win-ratio analysis of the PARADISE-MI trial	10.1002/ejhf.2663
EJHF#9	Impact of ischaemic aetiology on the efficacy of intravenous ferric carboxymaltose in patients with iron deficiency and acute heart failure: insights from the AFFIRM-AHF trial	10.1002/ejhf.2630
EJHF#10	Midazolam versus morphine in acute cardiogenic pulmonary oedema: results of a multicentre, open-label, randomized controlled trial	10.1002/ejhf.2602

Journal of the American Medical Association – AMERICAN MEDICAL ASSOCIATION

#	TITLE	DOI
JAMA#1	Effect of Regular, Low-Dose, Extended-release Morphine on Chronic Breathlessness in Chronic Obstructive Pulmonary Disease	10.1001/jama.2022.20206
JAMA#2	Effect of Selective Decontamination of the Digestive Tract on Hospital Mortality in Critically Ill Patients Receiving Mechanical Ventilation	10.1001/jama.2022.17927
JAMA#3	Effect of Lower vs Higher Oxygen Saturation Targets on Survival to Hospital Discharge Among Patients Resuscitated After Out-of-Hospital Cardiac Arrest	10.1001/jama.2022.17701
JAMA#4	Effect of Ivermectin vs Placebo on Time to Sustained Recovery in Outpatients With Mild to Moderate COVID-19 A Randomized Clinical Trial	10.1001/jama.2022.18590
JAMA#5	Effect of Spinal Cord Burst Stimulation vs Placebo Stimulation on Disability in Patients With Chronic Radicular Pain After Lumbar Spine Surgery	10.1001/jama.2022.18231
JAMA#6	Effect of Telmisartan on Walking Performance in Patients With Lower Extremity Peripheral Artery Disease	10.1001/jama.2022.16797
JAMA#7	Effect of Cefepime/Enmetazobactam vs Piperacillin/Tazobactam on Clinical Cure and Microbiological Eradication in Patients With Complicated Urinary Tract Infection or Acute Pyelonephritis	10.1001/jama.2022.17034
JAMA#8	Effect of a Postoperative Multimodal Opioid-Sparing Protocol vs Standard Opioid Prescribing on Postoperative Opioid Consumption After Knee or Shoulder Arthroscopy	10.1001/jama.2022.16844
JAMA#9	Five-Year Outcomes in Patients With Fully Magnetically Levitated vs Axial-Flow Left Ventricular Assist Devices in the MOMENTUM 3 Randomized Trial	10.1001/jama.2022.16197
JAMA#10	Effect of First-Line Serplulimab vs Placebo Added to Chemotherapy on Survival in Patients With Extensive-Stage Small Cell Lung Cancer The ASTRUM-005 Randomized Clinical Trial	10.1001/jama.2022.16464

British Medical Journal – BMJ PUBLISHING GROUP

#	TITLE	DOI
BMJ#1	Quantifying the benefits of inefficient walking: Monty Python inspired laboratory based experimental study	10.1136/bmj-2022-072833
BMJ#2	Effectiveness of mRNA-1273, BNT162b2, and BBIBP-CorV vaccines against infection and mortality in children in Argentina, during predominance of delta and omicron covid-19 variants: test negative, case-control study	10.1136/bmj-2022-073070
BMJ#3	Rivaroxaban treatment for six weeks versus three months in patients with symptomatic isolated distal deep vein thrombosis: 6andomized controlled trial	10.1136/bmj-2022-072623
BMJ#4	Novel antihyperglycaemic drugs and prevention of chronic obstructive pulmonary disease exacerbations among patients with type 2 diabetes: population based cohort study	10.1136/bmj-2022-071380
BMJ#5	Comparison of short term surgical outcomes of male and female gastrointestinal surgeons in Japan: retrospective cohort study	10.1136/bmj-2022-070568
BMJ#6	Margin status and survival outcomes after breast cancer conservation surgery: prospectively registered systematic review and meta-analysis	10.1136/bmj-2022-070346
BMJ#7	Effectiveness of an intervention for reducing sitting time and improving health in office workers: three arm cluster 6andomized controlled trial	10.1136/bmj-2021-069288
BMJ#8	Long distance airborne transmission of SARS-CoV-2: rapid systematic review	10.1136/bmj-2021-068743
BMJ#9	Development and validation of a decision support tool for the diagnosis of acute heart failure: systematic review, meta-analysis, and modelling study	10.1136/bmj-2021-068424
BMJ#10	Gestational diabetes mellitus and adverse pregnancy outcomes: systematic review and meta-analysis	10.1136/bmj-2021-067946

New England Journal of Medicine – MASSACHUSETTS MEDICAL SOCIETY

#	TITLE	DOI
NEJM#1	Nasal High-Flow Therapy during Neonatal Endotracheal Intubation	10.1056/NEJMoa2116735
NEJM#2	Covid-19 Vaccine Effectiveness against the Omicron (B.1.1.529) Variant	10.1056/NEJMoa2119451
NEJM#3	Mitapivat versus Placebo for Pyruvate Kinase Deficiency	10.1056/NEJMoa2116634
NEJM#4	Population Immunity and Covid-19 Severity with Omicron Variant in South Africa	10.1056/NEJMoa2119658
NEJM#5	Single-Incision Mini-Slings for Stress Urinary Incontinence in Women	10.1056/NEJMoa2111815
NEJM#6	Hydrocortisone to Improve Survival without Bronchopulmonary Dysplasia	10.1056/NEJMoa2114897
NEJM#7	Valoctocogene Roxaparvovec Gene Therapy for Hemophilia A	10.1056/NEJMoa2113708
NEJM#8	Effectiveness of Covid-19 Vaccines over a 9-Month Period in North Carolina	10.1056/NEJMoa2117128

NEJM#9	Balanced Multielectrolyte Solution versus Saline in Critically Ill Adults	10.1056/NEJMoa2114464
NEJM#10	Effect of Covid-19 Vaccination on Transmission of Alpha and Delta Variants	10.1056/NEJMoa2116597