

Ylias M Sabri

List of Publications by Year in descending order

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106
papers

3,497
citations

117625

34
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155660

55
g-index

108
all docs

108
docs citations

108
times ranked

4508
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Laying Waste to Mercury: Inexpensive Sorbents Made from Sulfur and Recycled Cooking Oils. Chemistry - A European Journal, 2017, 23, 16219-16230. | 3.3 | 185 |
| 2 | SERS and fluorescence-based ultrasensitive detection of mercury in water. Biosensors and Bioelectronics, 2018, 100, 556-564. | 10.1 | 155 |
| 3 | Fe-doped CeO ₂ nanorods for enhanced peroxidase-like activity and their application towards glucose detection. Journal of Materials Chemistry B, 2016, 4, 3874-3885. | 5.8 | 151 |
| 4 | Detect, Remove and Reuse: A New Paradigm in Sensing and Removal of Hg (II) from Wastewater via SERS-Active ZnO/Ag Nanoarrays. Environmental Science & Technology, 2015, 49, 1578-1584. | 10.0 | 122 |
| 5 | Ceria-zirconia modified MnO _x catalysts for gaseous elemental mercury oxidation and adsorption. Catalysis Science and Technology, 2016, 6, 1792-1803. | 4.1 | 122 |
| 6 | Oxygen-deficient photostable Cu ₂ O for enhanced visible light photocatalytic activity. Nanoscale, 2018, 10, 6039-6050. | 5.6 | 115 |
| 7 | Defining the role of humidity in the ambient degradation of few-layer black phosphorus. 2D Materials, 2017, 4, 015025. | 4.4 | 110 |
| 8 | Gold nanospikes formed through a simple electrochemical route with high electrocatalytic and surface enhanced Raman scattering activity. Chemical Communications, 2009, , 5039. | 4.1 | 90 |
| 9 | Highly efficient nanosized Mn and Fe codoped ceria-based solid solutions for elemental mercury removal at low flue gas temperatures. Catalysis Science and Technology, 2015, 5, 2913-2924. | 4.1 | 86 |
| 10 | Catalytic oxidation and adsorption of elemental mercury over nanostructured CeO ₂ -MnO _x catalyst. RSC Advances, 2015, 5, 30331-30341. | 3.6 | 82 |
| 11 | Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO ₂ . Nanoscale, 2017, 9, 19162-19175. | 5.6 | 81 |
| 12 | Hydrogen sensors based on 2D WO ₃ nanosheets prepared by anodization. Sensors and Actuators B: Chemical, 2017, 251, 57-64. | 7.8 | 78 |
| 13 | Probing the effect of charge transfer enhancement in off resonance mode SERS via conjugation of the probe dye between silver nanoparticles and metal substrates. Physical Chemistry Chemical Physics, 2013, 15, 12920. | 2.8 | 77 |
| 14 | Controlling Core/Shell Formation of Nanocubic Cu ₂ O/ZnO Toward Enhanced Photocatalytic Performance. Langmuir, 2015, 31, 10922-10930. | 3.5 | 75 |
| 15 | Leveraging Cu/CuFe ₂ O ₄ -Catalyzed Biomass-Derived Furfural Hydrodeoxygenation: A Nanoscale Metal-Organic-Framework Template Is the Prime Key. ACS Applied Materials & Interfaces, 2020, 12, 21682-21700. | 8.0 | 75 |
| 16 | Premonolayer Oxidation of Nanostructured Gold: An Important Factor Influencing Electrocatalytic Activity. Langmuir, 2009, 25, 3845-3852. | 3.5 | 74 |
| 17 | Structural characterization and catalytic evaluation of transition and rare earth metal doped ceria-based solid solutions for elemental mercury oxidation. RSC Advances, 2013, 3, 12963. | 3.6 | 73 |
| 18 | Soot template TiO ₂ fractals as a photoactive gas sensor for acetone detection. Sensors and Actuators B: Chemical, 2018, 275, 215-222. | 7.8 | 66 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Efficient Heterostructures of Ag@CuO/BaTiO ₃ for Low-Temperature CO ₂ Gas Detection: Assessing the Role of Nanointerfaces during Sensing by Operando DRIFTS Technique. ACS Applied Materials & Interfaces, 2017, 9, 27014-27026. | 8.0 | 63 |
| 20 | Co ₃ O ₄ needles on Au honeycomb as a non-invasive electrochemical biosensor for glucose in saliva. Biosensors and Bioelectronics, 2019, 141, 111479. | 10.1 | 54 |
| 21 | Regenerable γ -MnO ₂ nanotubes for elemental mercury removal from natural gas. Fuel Processing Technology, 2019, 193, 317-327. | 7.2 | 53 |
| 22 | Low-temperature elemental mercury removal over TiO ₂ nanorods-supported MnOx-FeOx-CrOx. Catalysis Today, 2019, 324, 174-182. | 4.4 | 49 |
| 23 | Mercury in natural gas streams: A review of materials and processes for abatement and remediation. Journal of Hazardous Materials, 2020, 382, 121036. | 12.4 | 49 |
| 24 | Ordered Monolayer Gold Nano-urchin Structures and Their Size Induced Control for High Gas Sensing Performance. Scientific Reports, 2016, 6, 24625. | 3.3 | 47 |
| 25 | Gold nanospikes based microsensor as a highly accurate mercury emission monitoring system. Scientific Reports, 2014, 4, 6741. | 3.3 | 44 |
| 26 | Mercury Sorption and Desorption on Gold: A Comparative Analysis of Surface Acoustic Wave and Quartz Crystal Microbalance-Based Sensors. Langmuir, 2015, 31, 8519-8529. | 3.5 | 43 |
| 27 | Silicon as a ubiquitous contaminant in graphene derivatives with significant impact on device performance. Nature Communications, 2018, 9, 5070. | 12.8 | 42 |
| 28 | Selective detection of elemental mercury vapor using a surface acoustic wave (SAW) sensor. Analyst, The, 2015, 140, 5508-5517. | 3.5 | 41 |
| 29 | Low-Temperature Hydrogen Sensor: Enhanced Performance Enabled through Photoactive Pd-Decorated TiO ₂ Colloidal Crystals. ACS Sensors, 2020, 5, 3902-3914. | 7.8 | 41 |
| 30 | Creating gold nanoprisms directly on quartz crystal microbalance electrodes for mercury vapor sensing. Nanotechnology, 2011, 22, 305501. | 2.6 | 40 |
| 31 | Nanosphere Monolayer on a Transducer for Enhanced Detection of Gaseous Heavy Metal. ACS Applied Materials & Interfaces, 2015, 7, 1491-1499. | 8.0 | 40 |
| 32 | Functionalization of Elongated Tetrahedral Au Nanoparticles and Their Antimicrobial Activity Assay. ACS Applied Materials & Interfaces, 2019, 11, 13450-13459. | 8.0 | 38 |
| 33 | Mercury diffusion in gold and silver thin film electrodes on quartz crystal microbalance sensors. Sensors and Actuators B: Chemical, 2009, 137, 246-252. | 7.8 | 36 |
| 34 | Candle-Soot Derived Photoactive and Superamphiphobic Fractal Titania Electrode. Chemistry of Materials, 2016, 28, 7919-7927. | 6.7 | 36 |
| 35 | Fabrication of a novel ZnIn ₂ S ₄ /g-C ₃ N ₄ /graphene ternary nanocomposite with enhanced charge separation for efficient photocatalytic H ₂ evolution under solar light illumination. Photochemical and Photobiological Sciences, 2019, 18, 2952-2964. | 2.9 | 36 |
| 36 | Galvanically replaced Au@Pd nanostructures: study of their enhanced elemental mercury sorption capacity over gold. Physical Chemistry Chemical Physics, 2014, 16, 19522. | 2.8 | 34 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Transition (Mn, Fe) and rare earth (La, Pr) metal doped ceria solid solutions for high performance photocatalysis: Effect of metal doping on catalytic activity. <i>Research on Chemical Intermediates</i> , 2018, 44, 2523-2543. | 2.7 | 34 |
| 38 | Mercury vapor sensor enhancement by nanostructured gold deposited on nickel surfaces using galvanic replacement reactions. <i>Journal of Materials Chemistry</i> , 2012, 22, 21395. | 6.7 | 33 |
| 39 | Template based sintering of WO ₃ nanoparticles into porous tungsten oxide nanofibers for acetone sensing applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2961-2970. | 5.5 | 33 |
| 40 | Mercury-bearing wastes: Sources, policies and treatment technologies for mercury recovery and safe disposal. <i>Journal of Environmental Management</i> , 2020, 270, 110945. | 7.8 | 33 |
| 41 | Facile conversion of zinc hydroxide carbonate to CaO-ZnO for selective CO ₂ gas detection. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 310-322. | 9.4 | 32 |
| 42 | Nano-engineered surfaces for mercury vapor sensing: Current state and future possibilities. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 88, 77-99. | 11.4 | 29 |
| 43 | QCM based mercury vapor sensor modified with polypyrrole supported palladium. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 616-622. | 7.8 | 28 |
| 44 | Study of Surface Morphology Effects on Hg Sorption/Desorption Kinetics on Gold Thin-Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2483-2492. | 3.1 | 28 |
| 45 | Straddled Band Aligned CuO/BaTiO ₃ Heterostructures: Role of Energetics at Nanointerface in Improving Photocatalytic and CO ₂ Sensing Performance. <i>ACS Applied Nano Materials</i> , 2018, 1, 3375-3388. | 5.0 | 27 |
| 46 | MOF-derived noble-metal-free Cu/CeO ₂ with high porosity for the efficient water-gas shift reaction at low temperatures. <i>Catalysis Science and Technology</i> , 2019, 9, 4226-4231. | 4.1 | 25 |
| 47 | In-depth nano-scale analysis of complex interactions of Hg with gold nanostructures using AFM-based power spectrum density method. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2374. | 2.8 | 24 |
| 48 | Zinc Titanate Nanoarrays with Superior Optoelectrochemical Properties for Chemical Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29255-29267. | 8.0 | 23 |
| 49 | Easy, one-step synthesis of CdTe quantum dots via microwave irradiation for fingerprinting application. <i>Materials Research Bulletin</i> , 2017, 90, 260-265. | 5.2 | 21 |
| 50 | Transforming Municipal Solid Waste into Construction Materials. <i>Sustainability</i> , 2019, 11, 2661. | 3.2 | 21 |
| 51 | A Nanoengineered Conductometric Device for Accurate Analysis of Elemental Mercury Vapor. <i>Environmental Science & Technology</i> , 2016, 50, 1384-1392. | 10.0 | 20 |
| 52 | Role of Ceria in the Design of Composite Materials for Elemental Mercury Removal. <i>Chemical Record</i> , 2019, 19, 1407-1419. | 5.8 | 19 |
| 53 | Silver/gold core/shell nanowire monolayer on a QCM microsensors for enhanced mercury detection. <i>RSC Advances</i> , 2015, 5, 92303-92311. | 3.6 | 18 |
| 54 | Development and comparative investigation of Ag-sensitive layer based SAW and QCM sensors for mercury sensing applications. <i>Analyst</i> , 2016, 141, 2463-2473. | 3.5 | 18 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | 1,4-Dihydropyrrolo[3,2- <i>b</i>]pyrroles as a Single Component Photoactive Layer: A New Paradigm for Broadband Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27875-27882. | 8.0 | 18 |
| 56 | Development and experimental verification of a finite element method for accurate analysis of a surface acoustic wave device. <i>Smart Materials and Structures</i> , 2016, 25, 035040. | 3.5 | 17 |
| 57 | Enhanced amperometric acetone sensing using electrospun non-stoichiometric WO ₃ nanofibers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 671-678. | 5.5 | 17 |
| 58 | CeO ₂ -Decorated \pm -MnO ₂ Nanotubes: A Highly Efficient and Regenerable Sorbent for Elemental Mercury Removal from Natural Gas. <i>Langmuir</i> , 2019, 35, 8246-8256. | 3.5 | 16 |
| 59 | Hydrogen Bubble Templated Growth of Honeycomb-Like Au-Pt Alloy Films for Non-Enzymatic Glucose Sensing. <i>Journal of the Electrochemical Society</i> , 2016, 163, B689-B695. | 2.9 | 15 |
| 60 | Looking into More Eyes Combining <i>In Situ</i> Spectroscopy in Catalytic Biofuel Upgradation with Composition-Graded Ag@Co Core@Shell Nanoalloys. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3750-3767. | 6.7 | 15 |
| 61 | A silver electrode based surface acoustic wave (SAW) mercury vapor sensor: a physio-chemical and analytical investigation. <i>RSC Advances</i> , 2016, 6, 36362-36372. | 3.6 | 14 |
| 62 | Selective conversion of furfural into tetrahydrofurfuryl alcohol using a heteropoly acid-based material as a hydrogenation catalyst. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4768-4779. | 4.9 | 14 |
| 63 | One-pot conversion of levulinic acid into gamma-valerolactone over a stable Ru tungstosphosphoric acid catalyst. <i>Fuel</i> , 2021, 289, 119900. | 6.4 | 14 |
| 64 | Au Nanospikes as a Non-enzymatic Glucose Sensor: Exploring Morphological Changes with the Elaborated Chronoamperometric Method. <i>Electroanalysis</i> , 2017, 29, 294-304. | 2.9 | 13 |
| 65 | Investigating the cross-interference effects of alumina refinery process gas species on a SAW based mercury vapor sensor. <i>Hydrometallurgy</i> , 2017, 170, 51-57. | 4.3 | 13 |
| 66 | Highly dispersed cobalt oxide nanoparticles on manganese oxide nanotubes for aerobic oxidation of benzyl alcohol. <i>Catalysis Communications</i> , 2019, 130, 105763. | 3.3 | 13 |
| 67 | Cold vapor integrated quartz crystal microbalance (CV-QCM) based detection of mercury ions with gold nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 453-458. | 7.8 | 13 |
| 68 | Investigation of Hg sorption and diffusion behavior on ultra-thin films of gold using QCM response analysis and SIMS depth profiling. <i>Journal of Materials Chemistry</i> , 2012, 22, 20929. | 6.7 | 12 |
| 69 | Cross sensitivity effects of volatile organic compounds on a SAW-based elemental mercury vapor sensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 235-241. | 7.8 | 12 |
| 70 | Studying the effect of dealloying Cu-Au nanostructures on their mercury sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 273-281. | 7.8 | 12 |
| 71 | Gold Sunflower Microelectrode Arrays with Dendritic Nanostructures on the Lateral Surfaces for Antireflection and Surface-Enhanced Raman Scattering. <i>ACS Applied Nano Materials</i> , 2022, 5, 1873-1890. | 5.0 | 12 |
| 72 | Support Layer Influencing Sticking Probability: Enhancement of Mercury Sorption Capacity of Gold. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8269-8275. | 3.1 | 11 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Galvanic replacement of colloidal monolayer crystal on a QCM device for selective detection of mercury vapor. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 383-392. | 7.8 | 11 |
| 74 | Functionalized Concave Cube Gold Nanoparticles as Potent Antimicrobial Agents against Pathogenic Bacteria. <i>ACS Applied Bio Materials</i> , 2022, 5, 492-503. | 4.6 | 11 |
| 75 | Studying mercury partition in monoethylene glycol (MEG) used in gas facilities. <i>Fuel</i> , 2015, 159, 917-924. | 6.4 | 10 |
| 76 | Mercury Migration and Speciation Study during Monoethylene Glycol Regeneration Processes. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5349-5355. | 3.7 | 9 |
| 77 | A nanoengineered surface acoustic wave device for analysis of mercury in gas phase. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 562-572. | 7.8 | 9 |
| 78 | Hybrid Surface and Bulk Resonant Acoustics for Concurrent Actuation and Sensing on a Single Microfluidic Device. <i>Analytical Chemistry</i> , 2018, 90, 5335-5342. | 6.5 | 9 |
| 79 | Electrochemical Evaluation of the Stability and Capacity of GO-Wrapped Copper Antimony Chalcogenide Anode for Li-ion battery. <i>ChemElectroChem</i> , 2020, 7, 3291-3300. | 3.4 | 9 |
| 80 | Reaction mechanism of alkali-activated brick clay mill residues. <i>Construction and Building Materials</i> , 2022, 341, 127817. | 7.2 | 9 |
| 81 | Nickel-gold bimetallic monolayer colloidal crystals fabricated via galvanic replacement as a highly sensitive electrochemical sensor. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5441-5449. | 5.8 | 8 |
| 82 | Long-Range Ordered Crystals of 3D Inorganic-Organic Heterojunctions via Colloidal Lithography. <i>Small Methods</i> , 2019, 3, 1900080. | 8.6 | 8 |
| 83 | Long-range ordered TiO ₂ /Au hollow urchins: topology control for maskless electrodeposition. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26035-26044. | 10.3 | 8 |
| 84 | Liquid Crystal-Mediated 3D Printing Process to Fabricate Nano-Ordered Layered Structures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28627-28638. | 8.0 | 7 |
| 85 | Amine-Infused Hydrogels with Nonaqueous Solvents: Facile Platforms to Control CO ₂ Capture Performance. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 14758-14767. | 3.7 | 7 |
| 86 | Determining the Optimum Exposure and Recovery Periods for Efficient Operation of a QCM Based Elemental Mercury Vapor Sensor. <i>Journal of Sensors</i> , 2015, 2015, 1-7. | 1.1 | 6 |
| 87 | Microstructural Investigation of High-Volume Fly Ash Composites Containing Nano-Calcium Silicate Hydrate Crystals. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, . | 2.9 | 6 |
| 88 | Recyclable SERS substrate: Optimised by reducing masking effect through colloidal lithography. <i>Applied Surface Science</i> , 2022, 578, 151852. | 6.1 | 6 |
| 89 | Mercury Detection in Real Industrial Flue Gas Using a Nanostructured Quartz Crystal Microbalance. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7661-7668. | 3.7 | 5 |
| 90 | Gas sensing performance enhancement: Determining the role of active sites through colloidal lithography. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1376-1384. | 7.8 | 5 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Preferential synthesis of highly conducting Tl(TCNQ) phase II nanorod networks via electrochemically driven TCNQ/Tl(TCNQ) solid-solid phase transformation. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3303-3314. | 2.5 | 4 |
| 92 | A QCM-based \sim on \hat{e} ™ mechanistic study of gas adsorption by plasmid DNA and DNA \hat{e} [Bmim][PF6] construct. <i>RSC Advances</i> , 2016, 6, 81318-81329. | 3.6 | 3 |
| 93 | Band offset in calcium hydroxide mediated CaO-ZnO heterointerfaces. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 265, 115005. | 3.5 | 3 |
| 94 | Fabrication of fractal structured soot templated titania-silver nano-surfaces for photocatalysis and SERS sensing. <i>Applied Surface Science</i> , 2022, 594, 153383. | 6.1 | 3 |
| 95 | Organic ligand interaction with copper(II) ions in both aqueous and non-aqueous media: Overcoming solubility issues for sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131934. | 7.8 | 2 |
| 96 | Electro-deposition of gold nano-structures on gold Quartz Crystal Microbalance (QCM) electrodes for enhanced mercury vapour sensitivity in the presence of interferent gases. , 2008, , . | | 1 |
| 97 | Using colloidal lithography to control the formation of gas sorption sites through galvanic replacement reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 199-205. | 9.4 | 1 |
| 98 | Photo-assisted Amperometric Acetone Sensing of PVP/WO ₃ Hybrid Nanofibers. , 2019, , . | | 1 |
| 99 | Treated Municipal Solid Waste (Biomass) Based Concrete Properties \hat{e} ”Part I: State of the Art. <i>RILEM Bookseries</i> , 2021, , 295-304. | 0.4 | 1 |
| 100 | Treated Municipal Solid Waste (Biomass) Based Concrete Properties \hat{e} ”Part II: Experimental Program. <i>RILEM Bookseries</i> , 2021, , 281-293. | 0.4 | 1 |
| 101 | Gold nanorod self-assembly on a quartz crystal microbalance: an enhanced mercury vapor sensor. <i>Environmental Science: Nano</i> , 0, , . | 4.3 | 1 |
| 102 | Development of nanostructured titanium oxide thin films using a gas carving technique. , 2006, , . | | 0 |
| 103 | Simultaneous multi-mode analysis of surface acoustic wave device temperature stability utilizing time-frequency methods. , 2015, , . | | 0 |
| 104 | A real-time comparison of mercury accumulation on noble metal thin films using gravimetric device. <i>Superlattices and Microstructures</i> , 2016, 100, 1151-1158. | 3.1 | 0 |
| 105 | Detection of alkali emissions from alumina refining processes. <i>Hydrometallurgy</i> , 2017, 170, 68-73. | 4.3 | 0 |
| 106 | Inorganic/Organic Heterojunctions: Long \hat{e} Range Ordered Crystals of 3D Inorganic \hat{e} Organic Heterojunctions via Colloidal Lithography (<i>Small Methods</i> 10/2019). <i>Small Methods</i> , 2019, 3, 1970034. | 8.6 | 0 |