No.	Title of the paper	Date of publication	Journal/publisher	Ranking	I.F.
61	Ahmad Umar, **A. A. Ibrahim,** Hassan Algadi, Umesh T. Nakate, Sandip P. Choudhury, Turki Alsuwian, Hasan Albargi, Mabkhoot A. Alsaiari, S. Baskoutas " Selective ethanol gas sensing performance of flowershaped CuO composed of thin nanoplates"	**2021**	**Journal of Materials Science: Materials in Electronics**	**Q2**	**2.478**
60	A.G. Ramu , Ahmad Umar, S. Gopi , Hassan Algadi , Hasan Albargi, **Ahmed A. Ibrahim,** Mabkhoot A. Alsaiari , Yao Wang, Dongjin Choi, "Tetracyanonickelate (II)/KOH/reduced graphene oxide fabricated carbon felt for mediated electron transfer type electrochemical sensor for efficient detection of N2O gas at room temperature"	**2021**	**Environmental Research**	**Q1**	**5.715**
59	Ahmad Umar, Hassan Algadi, Rajesh Kumar, M. Shaheer Akhtar**, A. A. Ibrahim,** Hassan Albargi, Mohsen A. M. Alhamami, Turki Alsuwian, Wen Zeng " Ultrathin leaf-shaped CuO nanosheets based sensor device for enhanced hydrogen sulfide gas sensing application"	**2021**	**Chemosensors**	**Q2**	**3.398**
58	Ahmad Umar , Faheem Ahmed , **Ahmed A. Ibrahim** , Hassan Algadi , Hasan B. Albargi ,Mohsen Ali M. Alhmami, Tubia Almas , Ayeda Y. A. Mohammed , Hatem Abuhimd , and L. Castañeda " MnO2 Nanoparticles Anchored Multi Walled Carbon Nanotubes as Potential Anode Materials for Lithium Ion Batteries"	**2021**	**Journal of Nanoscience and Nanotechnology**	**Q3**	**1.35**
57	Ahmad Umar, **Ahmed A. Ibrahim** , Rajesh Kumar, Hassan Algadi, Hasan Albargi, Mohsen A. M. Alhamami1, Umesh T. Nakate, and Sotirios Baskoutas "Star-Fruit-Shaped CuO Structures for High	**2021**	**Science of Advanced**	**Q3**	**1.318**

	Performance Ethanol Gas Sensor Device"		**Materials**		
56	Ahmad Umar, **Ahmed A. Ibrahim**, R. Kumar, Hassan Algadi, Hassan Albargi, F. Ahmad, Wen Zeng, M. Shaheer Akhtar "α-MnO2 nanowires as potential scaffold for high-performance formaldehyde gas sensor device"	**2021**	**Coatings Open Access**	**Q2**	**2.33**
55	Ahmad Umar,M. Shaheer Akhtar,Hassan Algadi,**A. A. Ibrahim**, Mohsen A. M. Alhamami " Highly sensitive and selective eco-toxic 4-nitrophenol chemical sensor based on Ag-doped ZnO nanoflowers decorated with nanosheets"	**2021**	**molecules**	**Q1**	**3.267**
54	Wenjuan Guo, Ahmad Umar, Hassan Algadi, Hasan Albargi, **Ahmed A. Ibrahim**, Kaili Cui, Luyan Wang, Meishan Pei, Yao Wang "Design of a unique "ON/OFF" switch electrochemical aptasensor driven by the pH for the detection of Aflatoxin B1 in acid solutions based on titanium carbide/ carboxylated graphene oxide- poly(4-vinyl pyridine)/Aptamer composite"	**2021**	**Microchemical journal**	**Q2**	**3.954**
53	lAhmadUmar ,**Ahmed A.Ibrahim**, HassanAlgadi, HasanAlbargi ,Mabkhoot A.Alsairi ,YaoWang SheikhAkbar " enhanced no2 gas sensor device based on supramolecular assembled polyaniline/silver oxide/grafene oxide composites"	**2021**	**Ceramics International**	**Q1**	**3.83**
52	Ahmad Umar , Siddheshwar D. Raut , **Ahmed A. Ibrahim** , Hassan Algadi , Hasan Albargi , Mabkhoot Alsaiari a , M. Shaheer Akhtar , Mohammad Qamar , Sotirios Baskoutas " Perforated Co3O4 nanosheets as high-performing supercapacitor material "	**2021**	**Electrochimica Acta**	**Q1**	**6.215**
51	P. Paulraj, Ahmad Umar, K. Rajendran, A. Manikandan, A.	**2021**	**Journal of Materials**	**Q2**	**2.478**

	Sathamraja, R. Kumar, E. Manikandan, K. Pandian, S. askoutas, Hassan Algadi, **Ahmed A. Ibrahim** & Mabkhoot A. Alsaiari " **Methylene blue intercalated layered MnO_2 nanosheets for high-sensitive non-enzymatic ascorbic acid sensor** "		**Science: Materials in Electronics**		
50	Ahmad Umar, **Ahmed A Ibrahim**, Rajesh Kumar, Hassan Algadi, Hasan Albargi, Mabkhoot A. Alsairi,; Mohsen A. M. Alhmami, Wen Zeng, Faheem Ahmed, Sheikh Akbar, PHD "CdO-ZnO nanorices for enhanced and selective formaldehyde gas sensing applications"	**2021**	**Environmental Research**	**Q1**	**5.715**
49	"Highly sensitive and selective 2-nitroaniline chemical sensor based on Ce-doped SnO2 nanosheets/ Nafion modified glassy carbon electrode", has been accepted for publication "	**2021**	**Advanced Composites and Hybrid Materials.**	**Q1**	**5.795**
48	M. Beaula Ruby Kamalam , S.S.R. Inbanathan , K. Sethuramanb, Ahmad Umard, , Hassan Algadi, **Ahmed A. Ibrahim**, Qazi Inamur Rahmang , Christos S. Garoufalis , Sotirios Baskoutas" Direct sunlight-driven enhanced photocatalytic performance of V2O5 nanorods/ graphene oxide nanocomposites for the degradation of Victoria blue dye "	**2021**	**Environmental Research**	**Q1**	**5.715**
47	AhmadUmar ,**Ahmed A.Ibrahim**, Hassan Algadi , Yousif A.G.Ramu , S.A.Ibrahim,YaoWang,MarliaM.Hanafiah,P.Shanmugam,DongjinChoi "Synthesis of porous 2D layered nickel oxide-reduced graphene oxide (NiO-rGO) hybrid composite for the efficient electrochemical detection of epinephrine in biological fluid"	**2021**	**Environmental Research**	**Q1**	**5.715**
46	P. Paulraj, Ahmad Umar ,K. Rajendran5, A. Manikandan, A. Sathamraja, R. Kumar, E. Manikandan,K. Pandian, S. Baskoutas, Hassan Algadi , **Ahmed A. Ibrahim**, and Mabkhoot A.	**2021**	**J Mater Sci: Mater Electron**	**Q1**	**2.195**

	Alsaiari"Methylene blue intercalated layered MnO2nanosheetsfor high-sensitive non-enzymatic ascorbic acid sensor"				
45	AhmadUmar, **Ahmed A.Ibrahim**, H.Y.Ammar , Umesh T.Nakate , HasanAlbargi , Y.B.Hahnd"Urchin like CuO hollow microspheres for selective high response ethanol sensor application: Experimental and theoretical studies"	**2021**	**Ceramics International**	**Q1**	**3.45**
44	Ahmad Umar , M. Shaheer Akhtar , Sadia Ameen ,. Imran , Rajesh Kumar, Yao Wang, **Ahmed A. Ibrahim**, H. Albargi, Mohammed Jalalah, Mabkhoot A. Alsaiari , M.S. Al-Assiri, "Colloidal synthesis of $NiMn_2O_4$ nanodisks decorated reduced graphene oxide for electrochemical applications"	**2021**	**Microchemical journal**	**Q2**	**3.954**
43	Ahmad Umar, Mohammad Qamar, Rajesh Kumar, **Ahmed A. Ibrahim**, Mohsen Ali M. Alhmami, Tubia Almas, Ayeda Y. A. Mohammed, Nikolaos Bouropoulos, S. Baskoutas, Munzir H. Suliman, and Qasem A. Drmosh"Electrochemical Oxygen Evolution Reaction Catalyzed by Cobalt Oxide (Co3O4) Nanodisks"	**2020**	**Science of Advanced Materials**	**Q3**	**1.318**
42	P. Paulraj, Ahmad Umar, K. Rajendran , A. Manikandan , R. Kumar , E. Manikandan, K. Pandian b , Mater H. Mahnashi , Mabkhoot A. Alsaiari, **Ahmed A. Ibrahim**, Nikolaos Bouropoulos , Sotirios Baskoutas , " Solid-state synthesis of Ag-doped PANI nanocomposites for their end-use as an electrochemical sensor for hydrogen peroxide and dopamine "	**2020**	**Electrochimica Acta**	**Q1**	**6.215**
41	Ahmad Umar, **Ahmed A. Ibrahim**, R. Kumar, H. Albargi, Wen Zeng, Mohsen Ali M Alhmami, Mabkhoot A. Alsaiari , S. **Baskoutas**"Gas sensor device for high-performance ethanol sensing using α-MnO2 nanoparticles"	**2020**	**Materials Letters**	***Q1***	**3.204**

40	Ahmad Umar, **Ahmed A. Ibrahim**, Umesh T. Nakate, Hasan Albargi, Mabkhoot A. Alsaiari, Faheem Ahmed, Fahad A. Alharthi, Abdulaziz Ali Alghamdi, Nabil Al-Zaqri " Fabrication and characterization of CuO nanoplates based sensor device for ethanol gas sensing application"	**2020**	**Chemical Physics Letters**	**Q3**	**2.029**
39	Ahmad Umar; **Ahmed A Ibrahim**; Rajesh Kumar; Hasan Albargi; Mabkhoot A Alsaiari; Faheem Ahmad, "Cubic shaped hematite (α-Fe2O3) micro-structures composed of stacked nanosheets for rapid ethanol sensor application"	**2020**	**Sensors and Actuators B: Chemical**	**Q1**	**6.36**
38	Ahmad Umar ,Farid A. Harraz, **Ahmed A. Ibrahim**, Tubia Almas, Rajesh Kumar, M. S. Al-Assiri , and Sotirios Baskoutas "Iron-Doped Titanium Dioxide Nanoparticles As Potential Sca_old for Hydrazine Chemical Sensor Applications"	**2020**	**Coatings Open Access**	**Q2**	**2.33**
37	Ahmad Umar , **Ahmed A. Ibrahim** , Rajesh Kumar , Tubia Almas , Priyanka Sandal , M.S. Al-Assiri , Mater H. Mahnashi , B.Z. AlFarhan , S. Baskoutas "Fern shaped La2O3 nanostructures as potential scaffold for efficient hydroquinone chemical sensing application "	**2020**	**Ceramics International**	**Q1**	**3.45**
36	Ahmad Umar**,** Tubia Almas**, Ahmed** A. **Ibrahim,** Rajesh Kumar**,** M.S. AlAssiri**, S.** Baskoutas**,** M. Shaheer Akhtar "An efficient chemical sensor based on CeO2 nanoparticles for the detection of acetylacetone chemical"	**2020**	**Journal of Electroanalytical Chemistry**	**Q1**	**3.218**
35	Ahmad Umar , H. Y. Ammar , Rajesh Kumar , **Ahmed A. Ibrahim** , M. S. Al-Assiri, " Square disks- based crossed architectures of SnO_2 for ethanol gas sensing applications- An experimental and theoretical investigation"	**2019**	**Sensors and Actuators B: Chemical**	**Q1**	**6.36**

34	Ahmad Umar , **Ahmed A. Ibrahim** , Rajesh Kumar , Tubia Almas , Priyanka Sandal , M. S. Al-Assiri , Mater H. Mahnashi , B. Z. AlFarhan , S. Baskoutas "Fern shaped La_2O_3 nanostructures as potential scaffold for efficient hydroquinone chemical sensing application"	***2019***	**Ceramics International**	**Q1**	**3.45**
33	Ahmad Umar, M. Shaheer Akhtar, Tubia Almas, **Ahmed A. Ibrahim**, M.S. Al-Assiri, Yoshitake Masuda, Qazi Inamur Rahman, Sotirios Baskoutas"Direct growth of flower-shaped ZnO nanostructures on FTO substrate for dye-sensitized solar cells"	**2019**	**Crystals**	**Q2**	**2.06**
32	Ahmad Umar1, H.Y. Ammar, Rajesh Kumar, Tubia Almas, **Ahmed A. Ibrahim**, M. S. AlAssiri, M. Abaker, S. Baskoutas "Efficient H2 gas sensor based on 2D SnO2 disks: DFT calculations for understanding H2 interactions"	***2019***	***International Journal of Hydrogen Energy***	**Q1**	**4.08**
31	, Umar A, Singh K, **Ibrahim AA**, Al-Heniti SH, Raffah Al-Hadeethi Y BMYtterbium-Doped ZnO Flowers Based Phenyl Hydrazine Chemical Sensor	**2019**	**Journal of Nanoscience and Nanotechnology**	**Q3**	**1.35**
30	Ahmad Umar, **Ahmed A. Ibrahim**, Rajesh Kumar, Tubia Almas , M. S. Al- Assiri, S. Baskoutas "Nitroaniline chemi-sensor based on Bitter Gourd shaped Ytterbium oxide (Yb2O3) doped zinc oxide (ZnO) nostructures"	***2019***	**Ceramics International**	**Q1**	**3.45**
29	Yas Al-Hadeethi, Ahmad Umar, Kulvinder Singh, **Ahmed A. Ibrahim**, Saleh. H. Al-Heniti, and Bahaaudin M. Raffah," Highly Sensitive Picric Acid Chemical Sensor Based on Samarium (Sm) Doped ZnO Nanorods"	**2019**	**Journal of Nanoscience and Nanotechnology**	**Q3**	**1.35**

28	Yas Al-Hadeethi, Ahmad Umar, **Ahmed A. Ibrahim**, Rajesh Kumar, Saleh. H. Al-Heniti, and Bahaaudin M. Raffah" Hydroquinone Sensor Based on Neodymium (Nd) Doped ZnO Hexagonal Nanorods"	**2018**	**Nanoscience and Nanotechnology Letters**	**Q3**	**2.91**
27	Ahmad Umar, S. H. Kim , Rajesh Kumar , M. S. Al-Assiri , A. E. Al-Salami **, Ahmed A. Ibrahim** , Sotirios Baskoutas "In-Doped ZnO Hexagonal Stepped Nanorods and Nanoflowers as Potential Scaffold for Highly-Sensitive Phenyl Hydrazine Chemical Sensors	**2017**	**"Materials**	**Q2**	**2.972**
26	**Ahmed A. Ibrahim**, El Mehdi Sodki, Ahmad Umar, Aziz Amine, R. Kumar, M.S.Al-Assiri, A. E. Al-Salami, S. Baskoutas, 'Highly sensitive and selective non-enzymatic mono and disaccharide sugars sensing based on carbon paste electrodes modified with perforated NiO nanosheets'	***2017***	**((**New J. Chem.**,))**	**Q1**	**3.069**
25	Ahmad Umar, El Mehdi Sodki, **Ahmed A. Ibrahim**, Aziz Amine, R. Kumar, M. S. Al-Assiri, A. E. Al-Salami, S. Baskoutas, Fabrication and characterization of highly sensitive and selective alcohol sensors based on porous NiO nanodisks"	***2018***	**(Sensors and Actuators B: Chemical)**	**Q1**	**6.36**
24	**Ahmed A. Ibrahim,** Preeti Tiwari, M.S. Al-Assiri, A. E. Al-Salami, Ahmad Umar, Rajesh Kumar, S. H. Kim, Z.A. Ansari, S. Baskoutas 'Highly-sensitive picric acid chemical sensor based on ZnO nanopeanuts'	**2017**	**(Materials)**	**Q2**	**2.97**
23	**Ahmed A Ibrahim**, Rafiq Ahmad, Ahmad Umar, MS Al-Assiri, AE Al-Salami, Rajesh Kumar, SG Ansari, and S Baskoutas, 'Two-Dimensional Ytterbium Oxide Nanodisks Based Biosensor for	**(2017).**	**Biosensors and Bioelectronics**	**Q1**	***9.5***

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22	Al-Hadeethi, Yas, Ahmad Umar, **Ahmed A Ibrahim**, Saleh H Al-Heniti, Rajesh Kumar, S Baskoutas, and Bahaaudin M Raffah'Synthesis, characterization and acetone gas sensing applications of Ag-doped ZnO nanoneedles',	**2017**	**Ceramics International. .**	**Q1**	**3.45**
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19	**Ahmed A Ibrahim**, Rajesh Kumar, Ahmad Umar, SH Kim, Ali Bumajdad, ZA Ansari, and S Baskoutas, 'Cauliflower-Shaped ZnO Nanomaterials for Electrochemical Sensing and Photocatalytic Applications',	**(2016).**	**Electrochimica Acta**	**Q1**	***5.38***
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14	SH Kim, **Ahmed A Ibrahim**, R Kumar, Ahmad Umar, M Abaker, SW Hwang, and S Baskoutas, 'Synthesis and Characterization of Mimosa Pudica Leaves Shaped A-Iron Oxide Nanostructures for Ethanol Chemical Sensor Applications',	**(2016),**	**Journal of Nanoscience and Nanotechnology,**	**Q3**	**1.35**
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