

Imededdine Arbi Nehdi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mitigation of 3-monochloropropane-1,2-diol esters and glycidyl esters in refined palm oil: A new and optimized approach. <i>LWT - Food Science and Technology</i> , 2021, 139, 110612.	2.5	12
2	Bifunctional nano-catalyst produced from palm kernel shell via hydrothermal-assisted carbonization for biodiesel production from waste cooking oil. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110638.	8.2	48
3	Synthesis and characterization of bifunctional magnetic nano-catalyst from rice husk for production of biodiesel. <i>Environmental Technology and Innovation</i> , 2021, 21, 101296.	3.0	46
4	The detection of glycidyl ester in edible palm-based cooking oil using FTIR-chemometrics and 1H NMR analysis. <i>Food Control</i> , 2021, 125, 108018.	2.8	13
5	Chemical and Fatty Acid Compositions of Crude and Purified Extracts Obtained from <i>Datura innoxia</i> Seeds Extracted with Different Solvents. <i>Journal of Oleo Science</i> , 2021, 70, 321-332.	0.6	2
6	Microencapsulation of fish oil-in-water emulsion using thiol-modified β -lactoglobulin fibrils-chitosan complex. <i>Journal of Food Engineering</i> , 2020, 264, 109680.	2.7	27
7	Fe ₃ O ₄ -PDA-Lipase as Surface Functionalized Nano Biocatalyst for the Production of Biodiesel Using Waste Cooking Oil as Feedstock: Characterization and Process Optimization. <i>Energies</i> , 2020, 13, 177.	1.6	70
8	Monitoring of heat-induced carcinogenic compounds (3-monochloropropane-1,2-diol esters and) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4</i>	1.6	17
9	High Reserve in α -Tocopherol of <i>Peganum harmala</i> Seeds Oil and Antifungal Activity of Oil against Ten Plant Pathogenic Fungi. <i>Molecules</i> , 2020, 25, 4569.	1.7	13
10	PEG-assisted microwave hydrothermal growth of spherical mesoporous Zn-based mixed metal oxide nanocrystalline: Ester production application. <i>Fuel</i> , 2020, 279, 118489.	3.4	10
11	Fabrication of Concentrated Palm Olein-Based Diacylglycerol Oil "Soybean Oil Blend Oil-In-Water Emulsion: In-Depth Study of the Rheological Properties and Storage Stability. <i>Foods</i> , 2020, 9, 877.	1.9	14
12	Impact of Quercetin Encapsulation with Added Phytosterols on Bilayer Membrane and Photothermal-Alteration of Novel Mixed Soy Lecithin-Based Liposome. <i>Nanomaterials</i> , 2020, 10, 2432.	1.9	10
13	Improving Vesicular Integrity and Antioxidant Activity of Novel Mixed Soy Lecithin-Based Liposomes Containing Squalene and Their Stability against UV Light. <i>Molecules</i> , 2020, 25, 5873.	1.7	6
14	Optimization and blends study of heterogeneous acid catalyst-assisted esterification of palm oil industry by-product for biodiesel production. <i>Royal Society Open Science</i> , 2020, 7, 191592.	1.1	5
15	Mitigation of 3-MCPD esters and glycidyl esters during the physical refining process of palm oil by micro and macro laboratory scale refining. <i>Food Chemistry</i> , 2020, 328, 127147.	4.2	16
16	Response Surface Methodology Approach for Optimized Biodiesel Production from Waste Chicken Fat Oil. <i>Catalysts</i> , 2020, 10, 633.	1.6	20
17	Effect of extraction solvents on fatty acid composition and physicochemical properties of <i>Tecoma stans</i> seed oils. <i>Journal of King Saud University - Science</i> , 2020, 32, 2468-2473.	1.6	15
18	Supermagnetic Nano-Bifunctional Catalyst from Rice Husk: Synthesis, Characterization and Application for Conversion of Used Cooking Oil to Biodiesel. <i>Catalysts</i> , 2020, 10, 225.	1.6	43

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19	Study the Effect of Various Sulfonation Methods on Catalytic Activity of Carbohydrate-Derived Catalysts for Ester Production. <i>Catalysts</i> , 2020, 10, 638.	1.6	9
20	High Vacuum Fractional Distillation (HVFD) Approach for Quality and Performance Improvement of <i>Azadirachta indica</i> Biodiesel. <i>Energies</i> , 2020, 13, 2858.	1.6	3
21	Mesoporous Acidic Catalysts Synthesis from Dual-Stage and Rising Co-Current Gasification Char: Application for FAME Production from Waste Cooking Oil. <i>Materials</i> , 2020, 13, 871.	1.3	2
22	Synthesis of Lipase-Immobilized CeO ₂ Nanorods as Heterogeneous Nano-Biocatalyst for Optimized Biodiesel Production from <i>Eruca sativa</i> Seed Oil. <i>Catalysts</i> , 2020, 10, 231.	1.6	23
23	Synthesis of nanomagnetic sulphonated impregnated Ni/Mn/Na ₂ SiO ₃ as catalyst for esterification of palm fatty acid distillate. <i>RSC Advances</i> , 2020, 10, 6098-6108.	1.7	17
24	Synthesis of reusable biobased nano-catalyst from waste sugarcane bagasse for biodiesel production. <i>Environmental Technology and Innovation</i> , 2020, 18, 100788.	3.0	37
25	The implementation of artificial neural networks for the multivariable optimization of mesoporous NiO nanocrystalline: biodiesel application. <i>RSC Advances</i> , 2020, 10, 13302-13315.	1.7	7
26	Optimization the Process of Chemically Modified Carbon Nanofiber Coated Monolith via Response Surface Methodology for CO ₂ Capture. <i>Materials</i> , 2020, 13, 1775.	1.3	6
27	Chemical Composition, Oxidative Stability, and Antioxidant Activity of <i>Allium ampeloprasum</i> L. (Wild Leek) Seed Oil. <i>Journal of Oleo Science</i> , 2020, 69, 413-421.	0.6	8
28	Chemical composition, oxidative stability and antiproliferative activity of <i>Anethum graveolens</i> (dill) seed hexane extract. <i>Grasas Y Aceites</i> , 2020, 71, 374.	0.3	2
29	Modeling of the nanocrystalline-sized mesoporous zinc oxide catalyst using an artificial neural network for efficient biodiesel production. <i>Chemical Engineering Communications</i> , 2019, 206, 33-47.	1.5	9
30	Evaluation of quality parameters for fresh, used and recycled palm olein. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 6989-6997.	1.7	6
31	Oxidation and Polymerization of Triacylglycerols: In-Depth Investigations towards the Impact of Heating Profiles. <i>Foods</i> , 2019, 8, 475.	1.9	23
32	Characterization of Ternary Blends of Vegetable Oils with Optimal 6/3 Fatty Acid Ratios. <i>Journal of Oleo Science</i> , 2019, 68, 1041-1049.	0.6	13
33	Esterification of Palm Fatty Acid Distillate for Biodiesel Production Catalyzed by Synthesized Kenaf Seed Cake-Based Sulfonated Catalyst. <i>Catalysts</i> , 2019, 9, 482.	1.6	24
34	Palm Biochar-Based Sulphated Zirconium (Zr-AC-HSO ₃) Catalyst for Methyl Ester Production from Palm Fatty Acid Distillate. <i>Catalysts</i> , 2019, 9, 1029.	1.6	10
35	Rapid quantification of 3-monochloropropane-1,2-diol in deep-fat frying using palm olein: Using ATR-FTIR and chemometrics. <i>LWT - Food Science and Technology</i> , 2019, 100, 404-408.	2.5	11
36	Effects of natural and synthetic antioxidants on changes in 3-MCPD esters and glycidyl ester in palm olein during deep-fat frying. <i>Food Control</i> , 2019, 96, 488-493.	2.8	46

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37	Hydrolysis of oils in the Wadi Hanifah River in Saudi Arabia by free and immobilized <i>Staphylococcus aureus</i> ALA1 lipase. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13000.	1.3	4
38	Microencapsulation of fish oil using thiol-modified β -lactoglobulin fibrils/chitosan complex: A study on the storage stability and in vitro release. <i>Food Hydrocolloids</i> , 2018, 80, 186-194.	5.6	32
39	A Comparative Study of <i>Brachychiton populneus</i> Seed and Seed-Fiber Oils in Tunisia. <i>Waste and Biomass Valorization</i> , 2018, 9, 635-643.	1.8	6
40	<i>Yucca aloifolia</i> Seed Oil: A New Source of Bioactive Compounds. <i>Waste and Biomass Valorization</i> , 2018, 9, 1087-1093.	1.8	11
41	Effects of storage and yogurt matrix on the stability of tocotrienols encapsulated in chitosan-alginate microcapsules. <i>Food Chemistry</i> , 2018, 241, 79-85.	4.2	36
42	Physical properties and stability evaluation of fish oil-in-water emulsions stabilized using thiol-modified β -lactoglobulin fibrils-chitosan complex. <i>Food Research International</i> , 2018, 105, 482-491.	2.9	36
43	Metal oxide catalysts for biodiesel production. , 2018, , 303-319.		15
44	Hexane and ethanol extracted seed oils and leaf essential compositions from two castor plant (<i>Ricinus communis</i> L.) varieties. <i>Industrial Crops and Products</i> , 2018, 122, 174-181.	2.5	32
45	New Insights on Degumming and Bleaching Process Parameters on The Formation of 3-Monochloropropane-1,2-Diol Esters and Glycidyl Esters in Refined, Bleached, Deodorized Palm Oil. <i>Journal of Oleo Science</i> , 2018, 67, 397-406.	0.6	28
46	Study of oxidative stability and cold flow properties of <i>Citrullus colocynthis</i> oil and <i>Camelus dromedaries</i> fat biodiesel blends. <i>Industrial Crops and Products</i> , 2018, 122, 133-141.	2.5	14
47	Biodiesel Production from <i>Citrullus colocynthis</i> Oil Using Enzymatic Based Catalytic Reaction and Characterization Studies. <i>Protein and Peptide Letters</i> , 2018, 25, 164-170.	0.4	6
48	Biodiesel synthesis from <i>Brassica napus</i> seed oil using statistical optimization approach. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, 013103.	0.8	10
49	Development of a palm olein oil-in-water (o/w) emulsion stabilized by a whey protein isolate nanofibrils-alginate complex. <i>LWT - Food Science and Technology</i> , 2017, 82, 311-317.	2.5	18
50	Thermogravimetric analyses revealed the bioenergy potential of <i>Eulaliopsis binata</i> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 1237-1247.	2.0	30
51	Factors Impacting the Formation of 3-MCPD Esters and Glycidyl Esters During Deep Fat Frying of Chicken Breast Meat. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2017, 94, 759-765.	0.8	27
52	Sulfonated mesoporous ZnO catalyst for methyl esters production. <i>Journal of Cleaner Production</i> , 2017, 144, 482-491.	4.6	36
53	Sulfonated mesoporous zinc aluminate catalyst for biodiesel production from high free fatty acid feedstock using microwave heating system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 70, 219-228.	2.7	33
54	Esterification of Palm Fatty Acid Distillate Using a Sulfonated Mesoporous CuO-ZnO Mixed Metal Oxide Catalyst. <i>Chemical Engineering and Technology</i> , 2017, 40, 1931-1939.	0.9	27

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55	Formation and characterization of thiol-modified fibrillated whey protein isolate solution with enhanced functionalities. <i>Journal of Food Engineering</i> , 2017, 214, 277-286.	2.7	7
56	Effects of Environmental Stresses and in Vitro Digestion on the Release of Tocotrienols Encapsulated Within Chitosan-Alginate Microcapsules. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 10651-10657.	2.4	5
57	Kinetic analyses and pyrolytic behavior of Para grass (<i>Urochloa mutica</i>) for its bioenergy potential. <i>Bioresource Technology</i> , 2017, 224, 708-713.	4.8	262
58	Recent progress in synthesis and surface functionalization of mesoporous acidic heterogeneous catalysts for esterification of free fatty acid feedstocks: A review. <i>Energy Conversion and Management</i> , 2017, 141, 183-205.	4.4	76
59	Stability evaluation of lutein nanodispersions prepared via solvent displacement method: The effect of emulsifiers with different stabilizing mechanisms. <i>Food Chemistry</i> , 2016, 205, 155-162.	4.2	31
60	Impact of stirring speed on β -lactoglobulin fibril formation. <i>Food Science and Biotechnology</i> , 2016, 25, 15-21.	1.2	21
61	Emulsion formulation optimization and characterization of spray-dried β -carrageenan microparticles for the encapsulation of CoQ10. <i>Food Science and Biotechnology</i> , 2016, 25, 53-62.	1.2	10
62	Strain selection, growth productivity and biomass characterization of novel microalgae isolated from fresh and wastewaters of upper Punjab, Pakistan. <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , 2016, 9, 190-200.	1.1	26
63	Seed oil from Harmal (<i>Rhazya stricta</i> Decne) grown in Riyadh (Saudi Arabia): A potential source of β -tocopherol. <i>Journal of Saudi Chemical Society</i> , 2016, 20, 107-113.	2.4	11
64	Physicochemical, morphological and cellular uptake properties of lutein nanodispersions prepared by using surfactants with different stabilizing mechanisms. <i>Food and Function</i> , 2016, 7, 2043-2051.	2.1	19
65	Comparing the formation of lutein nanodispersion prepared by using solvent displacement method and high-pressure valve homogenization: Effects of formulation parameters. <i>Journal of Food Engineering</i> , 2016, 177, 65-71.	2.7	18
66	Synthesis and characterization of poppy seed oil methyl esters. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 1087-1096.	1.7	10
67	Forming a lutein nanodispersion via solvent displacement method: The effects of processing parameters and emulsifiers with different stabilizing mechanisms. <i>Food Chemistry</i> , 2016, 194, 416-423.	4.2	34
68	Effects of homogenization process parameters on physicochemical properties of astaxanthin nanodispersions prepared using a solvent-diffusion technique. <i>International Journal of Nanomedicine</i> , 2015, 10, 1109.	3.3	50
69	Physico-chemical properties of <i>Tecoma stans</i> Linn. seed oil: a new crop for vegetable oil. <i>Natural Product Research</i> , 2015, 29, 1249-1255.	1.0	7
70	<i>Yucca aloifolia</i> oil methyl esters. <i>Industrial Crops and Products</i> , 2015, 69, 257-262.	2.5	24
71	Lipase/enzyme catalyzed biodiesel production from <i>Prunus mahaleb</i> : A comparative study with base catalyzed biodiesel production. <i>Industrial Crops and Products</i> , 2015, 76, 1049-1054.	2.5	16
72	Preparation of Astaxanthin Nanodispersions Using Gelatin-Based Stabilizer Systems. <i>Molecules</i> , 2014, 19, 14257-14265.	1.7	35

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73	<i>Leucaena leucocephala</i> (Lam.) de Wit seed oil: Characterization and uses. <i>Industrial Crops and Products</i> , 2014, 52, 582-587.	2.5	35
74	Characterization of White Mahlab (<i>Prunus mahaleb</i> L.) Seed Oil: A Rich Source of Eleostearic Acid. <i>Journal of Food Science</i> , 2014, 79, C795-801.	1.5	29
75	<i>Chamaerops humilis</i> L. var. <i>argentea</i> Andr. Date Palm Seed Oil: A Potential Dietetic Plant Product. <i>Journal of Food Science</i> , 2014, 79, C534-9.	1.5	15
76	<i>Rhazya stricta</i> Decne seed oil as an alternative, non-conventional feedstock for biodiesel production. <i>Energy Conversion and Management</i> , 2014, 81, 400-406.	4.4	37
77	Production and characterization of biodiesel from <i>Camelus dromedarius</i> (Hachi) fat. <i>Energy Conversion and Management</i> , 2014, 78, 50-57.	4.4	28
78	<i>Cupressus sempervirens</i> var. <i>horizontalis</i> seed oil: Chemical composition, physicochemical characteristics, and utilizations. <i>Industrial Crops and Products</i> , 2013, 41, 381-385.	2.5	30
79	Influence of astaxanthin, emulsifier and organic phase concentration on physicochemical properties of astaxanthin nanodispersions. <i>Chemistry Central Journal</i> , 2013, 7, 127.	2.6	26
80	Bitter and sweet lupin (<i>Lupinus albus</i> L.) seeds and seed oils: A comparison study of their compositions and physicochemical properties. <i>Industrial Crops and Products</i> , 2013, 49, 573-579.	2.5	37
81	Characterization of Hachi (<i>Camelus dromedarius</i>) fat extracted from the hump. <i>Food Chemistry</i> , 2013, 139, 649-654.	4.2	14
82	Development of a Coconut- and Palm-Based Fat Blend for a Cookie Filler. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 91-101.	0.8	2
83	Evaluation and characterisation of <i>Citrullus colocynthis</i> (L.) Schrad seed oil: Comparison with <i>Helianthus annuus</i> (sunflower) seed oil. <i>Food Chemistry</i> , 2013, 136, 348-353.	4.2	88
84	Protection of Astaxanthin in Astaxanthin Nanodispersions Using Additional Antioxidants. <i>Molecules</i> , 2013, 18, 7699-7710.	1.7	21
85	The effects of physical refining on the formation of 3-monochloropropane-1,2-diol esters in relation to palm oil minor components. <i>Food Chemistry</i> , 2012, 135, 799-805.	4.2	62
86	Colloidal astaxanthin: Preparation, characterisation and bioavailability evaluation. <i>Food Chemistry</i> , 2012, 135, 1303-1309.	4.2	89
87	Garden cress (<i>Lepidium sativum</i> Linn.) seed oil as a potential feedstock for biodiesel production. <i>Bioresource Technology</i> , 2012, 126, 193-197.	4.8	33
88	The Physicochemical Properties of Palm Oil and Its Components. , 2012, , 377-391.		17
89	Characteristics, composition and thermal stability of <i>Acacia senegal</i> (L.) Willd. seed oil. <i>Industrial Crops and Products</i> , 2012, 36, 54-58.	2.5	48
90	Effect of Organic-Phase Solvents on Physicochemical Properties and Cellular Uptake of Astaxanthin Nanodispersions. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 8733-8741.	2.4	52

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91	Changes in chemical composition of <i>Phoenix canariensis</i> Hort. Ex Chabaud palm seed oil during the ripening process. <i>Scientia Horticulturae</i> , 2011, 129, 724-729.	1.7	9
92	Characteristics and composition of <i>Washingtonia filifera</i> (Linden ex Andr��) H. Wendl. seed and seed oil. <i>Food Chemistry</i> , 2011, 126, 197-202.	4.2	69