

# Curriculum Vitae (CV)

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## Publication Metrics

For manuscripts published from date range November 2012 - November 2023

39

H-index

82

Total Publications

3579

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82

Web of Science Core Collection Publications

## Lectured courses:

- 1-Chemical Technology of non-organic technologies
- 2-Catalysis and catalytic processes
- 3-Petrochemical products
- 4-Kinetics and Reactions
- 5-Organic Chemistry I, II, and III
- 6-General Chemistry
- 7-Chemistry and pigment technology
- 8-Organometallic chemistry
- 9-Pharmaceutical Chemistry

## Publications

For manuscripts published from date range November 2012 - November 2023  
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(All time)

ACS Sustainable Chemistry & Engineering Virtual Special Issue on Emerging Layered Nanomaterials for (Photo)(electro)catalytic Green H<sub>2</sub> Production

Authors (3): Doustkhah, Esmail; Luque, Rafael; Assadi, M. Hussein N.

Published: May 2023 in ACS Sustainable Chemistry & Engineering

DOI: 10.1021/ACSSUSCHEMENG.3C00038

Web of Science accession number: WOS:000985510000001

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<p>Templated Synthesis of Exfoliated Porous Carbon with Dominant Graphitic Nitrogen</p> <p>Authors (7): Doustkhah, Esmail; Kotb, Ahmed ... Assadi, M. Hussein N.</p> <p>Published: Feb 2023 in ACS Materials Au</p> <p>DOI: 10.1021/ACSMATERIALSAU.2C00074</p> <p>Web of Science accession number: WOS:001011308400001</p>	0
<p>Single-Atom Sn-Loaded Exfoliated Layered Titanate Revealing Enhanced Photocatalytic Activity in Hydrogen Generation</p> <p>Authors (4): Ustunel, Tugce; Ide, Yusuke ... Doustkhah, Esmail</p> <p>Published: Feb 2023 in ACS Sustainable Chemistry &amp; Engineering</p> <p>DOI: 10.1021/ACSSUSCHEMENG.2C06181</p> <p>Web of Science accession number: WOS:000939565900001</p>	3
<p>Pd Thickness Optimization on Silicate Sheets for Improving Catalytic Activity</p> <p>Authors (4): Doustkhah, Esmail; Tsunoji, Nao ... Ide, Yusuke</p> <p>Published: Feb 2023 in Advanced Materials Interfaces</p> <p>DOI: 10.1002/ADMI.202202368</p> <p>Web of Science accession number: WOS:000913716500001</p>	2
<p>Ultrasonically-assisted synthesis of CeO<sub>2</sub> within WS<sub>2</sub> interlayers forming type II heterojunction for a VOC photocatalytic oxidation</p> <p>Authors (7): Doustkhah, Esmail; Hassandoost, Ramin ... Khataee, Alireza</p> <p>Published: Jan 2023 in Ultrasonics Sonochemistry</p> <p>DOI: 10.1016/J.ULTSONCH.2022.106245</p> <p>Web of Science accession number: WOS:000928279600004</p>	5
<p>Transforming Cl-Containing Waste Plastics into Carbon Resource for Steelmaking: Theoretical Insight</p> <p>Authors (2): Assadi, M. Hussein N.; Doustkhah, Esmail</p> <p>Published: 2023 in ACS Engineering Au</p> <p>DOI: 10.1021/ACSENGINEERINGAU.3C00021</p> <p>Web of Science accession number: WOS:001068475400001</p>	0
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<p>In Situ Formation of Copper Phosphate on Hydroxyapatite for Wastewater Treatment</p> <p>Authors (4): Rahmani, Fatemeh; Ghadi, Arezoo ... Khaksar, Samad</p> <p>Published: Aug 2022 in Nanomaterials</p> <p>DOI: 10.3390/NANO12152650</p> <p>Web of Science accession number: WOS:000839917200001</p>	2

<p><b>Layered silicate stabilises diiron to mimic UV-shielding TiO<sub>2</sub> nanoparticle</b></p> <p>Authors (9): El-Hosainy, Hamza; Mine, Shinya ... Ide, Yusuke  Published: Aug 2022 in Materials Today Nano  DOI: 10.1016/J.MTNANO.2022.100227  Web of Science accession number: WOS:000855689600003</p>	4
<p><b>Stability Trends in Mono-Metallic 3d Layered Double Hydroxides</b></p> <p>Authors (4): Mohammadi, Saeedeh; Esmailpour, Ayoub ... Assadi, Mohammad Hussein Naseef  Published: Apr 2022 in Nanomaterials  DOI: 10.3390/NANO12081339  Web of Science accession number: WOS:000785450300001</p>	3
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<p><b>Nanoarchitectonics for Abused-Drug Biosensors</b></p> <p>Authors (7): Moradi, Rasoul; Khalili, Nazila Pour ... Rotkin, Slava V.  Published: Mar 2022 in Small  DOI: 10.1002/SMLL.202104847  Web of Science accession number: WOS:000728231000001</p>	8
<p><b>Nanoarchitecturing bimetallic manganese cobaltite spinels for sonocatalytic degradation of oxytetracycline</b></p> <p>Authors (13): Hassandoost, Ramin; Kotb, Ahmed ... Doustkhah, Esmail  Published: Mar 2022 in Chemical Engineering Journal  DOI: 10.1016/J.CEJ.2021.133851  Web of Science accession number: WOS:000777761500003</p>	53
<p><b>In situ Blue titania via band shape engineering for exceptional solar H<sub>2</sub> production in rutile TiO<sub>2</sub></b></p> <p>Authors (10): Doustkhah, Esmail; Assadi, M. Hussein N. ... Ide, Yusuke  Published: Nov 2021 in Applied Catalysis B: Environmental  DOI: 10.1016/J.APCATB.2021.120380  Web of Science accession number: WOS:000697777700002</p>	46
<p><b>A rutile TiO<sub>2</sub> nanobundle as a precursor of an efficient visible-light photocatalyst embedded with Fe<sub>2</sub>O<sub>3</sub></b></p> <p>Authors (7): Mani, Durai; Tahawy, Rafat ... Ide, Yusuke  Published: Oct 2021 in Inorganic Chemistry Frontiers  DOI: 10.1039/D1QI00565K  Web of Science accession number: WOS:000686243500001</p>	8

<p>Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science</p> <p>Authors (12): Arandiyan, Hamidreza; Mofarah, Sajjad S. ... Maschmeyer, Thomas</p> <p>Published: Sep 2021 in Chemical Society Reviews</p> <p>DOI: 10.1039/D0CS00639D</p> <p>Web of Science accession number: WOS:000688133600001</p>	100
<p>Bispropylurea bridged polysilsesquioxane: A microporous MOF-like material for molecular recognition</p> <p>Authors (7): Doustkhah, Esmail; Tahawy, Rafat ... Assadi, M. Hussein N.</p> <p>Published: Aug 2021 in Chemosphere</p> <p>DOI: 10.1016/J.CHEMOSPHERE.2021.130181</p> <p>Web of Science accession number: WOS:000648339700086</p>	9
<p>Exceptionally stable green rust, a mixed-valent iron-layered double hydroxide, as an efficient solar photocatalyst for H<sub>2</sub> production from ammonia borane</p> <p>Authors (11): Tahawy, Rafat; Doustkhah, Esmail ... Ide, Yusuke</p> <p>Published: Jun 2021 in Applied Catalysis B: Environmental</p> <p>DOI: 10.1016/J.APCATB.2020.119854</p> <p>Web of Science accession number: WOS:000621624500004</p>	19
<p>A computational study at blocking probability of the SARS-CoV-2 spike protein through the binding of cellular receptors</p> <p>Authors (6): Mohammadi, Saeedeh; Doustkhah, Esmail ... Esmailpour, Ayoub</p> <p>Published: Jun 2021 in Eurasian Chemical Communications</p> <p>DOI: 10.22034/ECC.2021.277176.1146</p> <p>Web of Science accession number: WOS:000657342300002</p>	7
<p>The Isocyanurate-Carbamate-Bridged Hybrid Mesoporous Organosilica: An Exceptional Anchor for Pd Nanoparticles and a Unique Catalyst for Nitroaromatics Reduction</p> <p>Authors (3): Zebardasti, Ali; Dekamin, Mohammad G.; Doustkhah, Esmail</p> <p>Published: May 2021 in Catalysts</p> <p>DOI: 10.3390/CATAL11050621</p> <p>Web of Science accession number: WOS:000653575100001</p>	7
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<p>Three-dimensional bone printing using hydroxyapatite-PLA composite</p> <p>Authors (3): Zare, Reza Najafi; Doustkhah, Esmail; Assadi, M. Hussein N.</p> <p>Published: 2021 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2019.12.046</p> <p>Web of Science accession number: WOS:000635679000001</p>	8
<p>Detailed Mechanistic Pattern in Halogen Dance Reactions of Iodothiophenes</p> <p>Authors (4): Sakhaee, Nader; Sakhaee, Sahar ... Mobaraki, Akbar</p> <p>Published: 2021 in Current Organocatalysis</p> <p>DOI: 10.2174/2213337207999201123195958</p> <p>Web of Science accession number: WOS:000670314300009</p>	1
<p>In silico Investigation on the Inhibiting Role of Nicotine/Caffeine by Blocking the S Protein of SARS-CoV-2 Versus ACE2 Receptor</p> <p>Authors (8): Mohammadi, Saeedeh; Heidarizadeh, Mohammad ... Doustkhah, Esmail</p> <p>Published: Oct 2020 in Microorganisms</p> <p>DOI: 10.3390/MICROORGANISMS8101600</p> <p>Web of Science accession number: WOS:000587002600001</p>	14
<p>Ultrasound-engineered synthesis of WS<sub>2</sub>@CeO<sub>2</sub> heterostructure for sonocatalytic degradation of tylosin</p> <p>Authors (5): Tizhoosh, Negar Yousef; Khataee, Alireza ... Doustkhah, Esmail</p> <p>Published: Oct 2020 in Ultrasonics Sonochemistry</p> <p>DOI: 10.1016/J.ULTSONCH.2020.105114</p> <p>Web of Science accession number: WOS:000541900400046</p>	52
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Authors (7): Doustkhah, Esmail; Mohtasham, Hamed ... Assadi, M. Hussein N.	
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<p><b>Dithiocarbamate Modified SPION-Chitosan Nanobiocomposite, a Promising Adsorbent for Bovine Serum Albumin (BSA)</b></p> <p>Authors (6): Doustkhah, Esmail; Heydarizadeh, Mohammad ... Hasani, Morteza  Published: Sep 2019 in Chemical Methodologies  DOI: 10.33945/SAMI/CHEMM.2019.5.5  Web of Science accession number: WOS:000526808600005</p>	6
<p><b>Development of Sulfonic-Acid-Functionalized Mesoporous Materials: Synthesis and Catalytic Applications</b></p> <p>Authors (11): Doustkhah, Esmail; Lin, Jianjian ... Ide, Yusuke  Published: Feb 2019 in Chemistry - A European Journal  DOI: 10.1002/CHEM.201802183  Web of Science accession number: WOS:000459811300003</p>	134
<p><b>Mesoporous SBA-15/PIDA as a Dendrimer Zwitterionic Amino Acid-Type Organocatalyst for Three-Component Indazolophtalazine Synthesis</b></p> <p>Authors (5): Doustkhah, Esmail; Baghban, Ali ... Rostamnia, Sadegh  Published: Feb 2019 in Catalysis Letters  DOI: 10.1007/S10562-018-2643-6  Web of Science accession number: WOS:000458163500025</p>	21
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<p>Design of chitosan-dithiocarbamate magnetically separable catalytic nanocomposites for greener aqueous oxidations at room temperature</p> <p>Authors (6): Doustkhah, Esmail; Rostamnia, Sadegh ... Luque, Rafael</p> <p>Published: Jun 2017 in Molecular Catalysis</p> <p>DOI: 10.1016/J.MCAT.2017.01.031</p> <p>Web of Science accession number: WOS:000401676000002</p>	53
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