

Sheila J Sadeghi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,291

citations

20

h-index

32

g-index

68

ext. papers

1,492

ext. citations

5

avg, IF

4.5

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 67 | Breakthrough in P450 bioelectrochemistry and future perspectives. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 237-48 | 4 | 98 |
| 66 | Molecular Lego: design of molecular assemblies of P450 enzymes for nanobiotechnology. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 133-45 | 11.8 | 86 |
| 65 | Engineering and design in the bioelectrochemistry of metalloproteins. <i>Current Opinion in Structural Biology</i> , 2001 , 11, 491-9 | 8.1 | 65 |
| 64 | Modulating the coupling efficiency of human cytochrome P450 CYP3A4 at electrode surfaces through protein engineering. <i>Electrochemistry Communications</i> , 2008 , 10, 1744-1747 | 5.1 | 57 |
| 63 | Protein and electrode engineering for the covalent immobilization of P450 BMP on gold. <i>Analytical Chemistry</i> , 2008 , 80, 8438-46 | 7.8 | 52 |
| 62 | Chimeric P450 enzymes: activity of artificial redox fusions driven by different reductases for biotechnological applications. <i>Biotechnology and Applied Biochemistry</i> , 2013 , 60, 102-10 | 2.8 | 48 |
| 61 | Control of human cytochrome P450 2E1 electrocatalytic response as a result of unique orientation on gold electrodes. <i>Analytical Chemistry</i> , 2010 , 82, 5357-62 | 7.8 | 45 |
| 60 | Direct electrochemistry of an [FeFe]-hydrogenase on a TiO ₂ electrode. <i>Chemical Communications</i> , 2011 , 47, 10566-8 | 5.8 | 44 |
| 59 | An electrochemical microfluidic platform for human P450 drug metabolism profiling. <i>Analytical Chemistry</i> , 2010 , 82, 10222-7 | 7.8 | 42 |
| 58 | Engineering artificial redox chains by molecular Lego <i>Faraday Discussions</i> , 2000 , 135-53; discussion 171-90 | 3.6 | 40 |
| 57 | Layer-by-Layer Assembly of Supported Lipid Bilayer Poly-L-Lysine Multilayers. <i>Biomacromolecules</i> , 2016 , 17, 324-35 | 6.9 | 40 |
| 56 | Drug-drug interactions and cooperative effects detected in electrochemically driven human cytochrome P450 3A4. <i>Bioelectrochemistry</i> , 2012 , 86, 87-91 | 5.6 | 37 |
| 55 | In vitro drug metabolism by C-terminally truncated human flavin-containing monooxygenase 3. <i>Biochemical Pharmacology</i> , 2012 , 83, 551-8 | 6 | 32 |
| 54 | CYP116B5: a new class VII catalytically self-sufficient cytochrome P450 from <i>Acinetobacter radioresistens</i> that enables growth on alkanes. <i>Molecular Microbiology</i> , 2015 , 95, 539-54 | 4.1 | 27 |
| 53 | Effect of human flavin-containing monooxygenase 3 polymorphism on the metabolism of aurora kinase inhibitors. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 2707-16 | 6.3 | 27 |
| 52 | A nucleotidase with unique catalytic properties is secreted by <i>Trichinella spiralis</i> . <i>Molecular and Biochemical Parasitology</i> , 2004 , 136, 257-64 | 1.9 | 27 |
| 51 | Direct electrochemistry of drug metabolizing human flavin-containing monooxygenase: electrochemical turnover of benzydamine and tamoxifen. <i>Journal of the American Chemical Society</i> , 2010 , 132, 458-9 | 16.4 | 25 |

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| 50 | Hydrogen production at high Faradaic efficiency by a bio-electrode based on TiO ₂ adsorption of a new [FeFe]-hydrogenase from <i>Clostridium perfringens</i> . <i>Bioelectrochemistry</i> , 2015 , 106, 258-62 | 5.6 | 23 |
| 49 | Dynamics and flexibility of human aromatase probed by FTIR and time resolved fluorescence spectroscopy. <i>PLoS ONE</i> , 2013 , 8, e82118 | 3.7 | 23 |
| 48 | Identification of a novel Baeyer-Villiger monooxygenase from <i>Acinetobacter radioresistens</i> : close relationship to the <i>Mycobacterium tuberculosis</i> prodrug activator EtaA. <i>Microbial Biotechnology</i> , 2012 , 5, 700-16 | 6.3 | 21 |
| 47 | Human Cytochrome P450 3A4 as a Biocatalyst: Effects of the Engineered Linker in Modulation of Coupling Efficiency in 3A4-BMR Chimeras. <i>Frontiers in Pharmacology</i> , 2017 , 8, 121 | 5.6 | 20 |
| 46 | Human flavin-containing monooxygenase 3 on graphene oxide for drug metabolism screening. <i>Analytical Chemistry</i> , 2015 , 87, 2974-80 | 7.8 | 19 |
| 45 | Understanding uncoupling in the multiredox centre P450 3A4-BMR model system. <i>Journal of Biological Inorganic Chemistry</i> , 2011 , 16, 109-16 | 3.7 | 18 |
| 44 | Electro-catalysis by immobilised human flavin-containing monooxygenase isoform 3 (hFMO3). <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1403-9 | 4.4 | 18 |
| 43 | Subtle structural changes in the Asp251Gly/Gln307His P450 BM3 mutant responsible for new activity toward diclofenac, tolbutamide and ibuprofen. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 602, 106-115 | 4.1 | 17 |
| 42 | Entrapment of human flavin-containing monooxygenase 3 in the presence of gold nanoparticles: TEM, FTIR and electrocatalysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012 , 1820, 2072-8 | 4 | 17 |
| 41 | Effects of protein-protein interactions on electron transfer: docking and electron transfer calculations for complexes between flavodoxin and c-type cytochromes. <i>Journal of Biological Inorganic Chemistry</i> , 1999 , 4, 360-74 | 3.7 | 17 |
| 40 | <i>Escherichia coli</i> Overexpressing a Baeyer-Villiger Monooxygenase from <i>Acinetobacter radioresistens</i> Becomes Resistant to Imipenem. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 64-74 | 5.9 | 16 |
| 39 | Characterization of a new Baeyer-Villiger monooxygenase and conversion to a solely N-or S-oxidizing enzyme by a single R292 mutation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016 , 1864, 1177-1187 | 4 | 16 |
| 38 | Bioelectrochemistry as a tool for the study of aromatization of steroids by human aromatase. <i>Electrochemistry Communications</i> , 2015 , 52, 25-28 | 5.1 | 15 |
| 37 | Inactivation mechanism of N61S mutant of human FMO3 towards trimethylamine. <i>Scientific Reports</i> , 2017 , 7, 14668 | 4.9 | 15 |
| 36 | Engineering <i>Macaca fascicularis</i> cytochrome P450 2C20 to reduce animal testing for new drugs. <i>Journal of Inorganic Biochemistry</i> , 2012 , 117, 277-84 | 4.2 | 15 |
| 35 | Human flavin-containing monooxygenase 3: Structural mapping of gene polymorphisms and insights into molecular basis of drug binding. <i>Gene</i> , 2016 , 593, 91-99 | 3.8 | 14 |
| 34 | Fluorescence detection of ligand binding to labeled cytochrome P450 BM3. <i>Dalton Transactions</i> , 2012 , 41, 2018-25 | 4.3 | 13 |
| 33 | Electrochemical detection of human cytochrome P450 2A6 inhibition: a step toward reducing dependence on smoking. <i>Analytical Chemistry</i> , 2014 , 86, 2760-6 | 7.8 | 12 |

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| 32 | Comparison of the refined crystal structures of wild-type (1.34 Å) flavodoxin from <i>Desulfovibrio vulgaris</i> and the S35C mutant (1.44 Å) at 100 K. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 1787-92 | | 12 |
| 31 | Identification of human flavin-containing monooxygenase 3 substrates by a colorimetric screening assay. <i>Analytical Biochemistry</i> , 2017 , 522, 46-52 | 3.1 | 11 |
| 30 | Chemical applications of Class B flavoprotein monooxygenases. <i>Rendiconti Lincei</i> , 2017 , 28, 195-206 | 1.7 | 11 |
| 29 | Peroxide-driven catalysis of the heme domain of <i>A. radioresistens</i> cytochrome P450 116B5 for sustainable aromatic rings oxidation and drug metabolites production. <i>New Biotechnology</i> , 2020 , 54, 71-79 | 6.4 | 11 |
| 28 | Modulation of the interaction between human P450 3A4 and <i>B. megaterium</i> reductase via engineered loops. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 116-125 | 4 | 10 |
| 27 | Binding of methimazole and NADP(H) to human FMO3: In vitro and in silico studies. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 460-468 | 7.9 | 10 |
| 26 | Flavin-Containing Monooxygenase 3 Polymorphic Variants Significantly Affect Clearance of Tamoxifen and Clomiphene. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018 , 123, 687-691 | 3.1 | 10 |
| 25 | Biochemical features of dye-decolorizing peroxidases: Current impact on lignin degradation. <i>Biotechnology and Applied Biochemistry</i> , 2020 , 67, 751-759 | 2.8 | 10 |
| 24 | Electrochemistry of <i>Canis familiaris</i> cytochrome P450 2D15 with gold nanoparticles: An alternative to animal testing in drug discovery. <i>Bioelectrochemistry</i> , 2015 , 105, 110-6 | 5.6 | 9 |
| 23 | Bioelectrochemical profiling of two common polymorphic variants of human FMO3 in presence of graphene oxide. <i>Electrochimica Acta</i> , 2017 , 228, 611-618 | 6.7 | 8 |
| 22 | A direct time-based ITC approach for substrate turnover measurements demonstrated on human FMO3. <i>Chemical Communications</i> , 2019 , 55, 6217-6220 | 5.8 | 8 |
| 21 | Graphene oxide-mediated electrochemistry of glucose oxidase on glassy carbon electrodes. <i>Biotechnology and Applied Biochemistry</i> , 2016 , 63, 157-62 | 2.8 | 7 |
| 20 | Influence of inter-domain dynamics and surrounding environment flexibility on the direct electrochemistry and electrocatalysis of self-sufficient cytochrome P450 3A4-BMR chimeras. <i>Journal of Inorganic Biochemistry</i> , 2018 , 188, 9-17 | 4.2 | 7 |
| 19 | Uncoupled human flavin-containing monooxygenase 3 releases superoxide radical in addition to hydrogen peroxide. <i>Free Radical Biology and Medicine</i> , 2019 , 145, 250-255 | 7.8 | 6 |
| 18 | Production of drug metabolites by human FMO3 in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2020 , 19, 74 | 6.4 | 6 |
| 17 | A rapid screening for cytochrome P450 catalysis on new chemical entities: cytochrome P450 BM3 and 1,2,5-oxadiazole derivatives. <i>Journal of Biomolecular Screening</i> , 2013 , 18, 211-8 | | 6 |
| 16 | Characterisation of the electron transfer and complex formation between flavodoxin from <i>D. vulgaris</i> and the haem domain of cytochrome P450 BM3 from <i>B. megaterium</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 234-41 | 4.6 | 6 |
| 15 | Ionic strength dependence of the non-physiological electron transfer between flavodoxin and cytochrome c553 from <i>D. vulgaris</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2000 , 5, 730-7 | 3.7 | 6 |

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| 14 | Enzymatically Produced Trimethylamine N-Oxide: Conserving It or Eliminating It. <i>Catalysts</i> , 2019 , 9, 10284 | | 5 |
| 13 | Toward reduction in animal sacrifice for drugs: molecular modeling of <i>Macaca fascicularis</i> P450 2C20 for virtual screening of <i>Homo sapiens</i> P450 2C8 substrates. <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 479-89 | 2.8 | 4 |
| 12 | Engineering heme binding sites in monomeric rop. <i>Journal of Biological Inorganic Chemistry</i> , 2009 , 14, 497-505 | 3.7 | 4 |
| 11 | Engineered human CYP2C9 and its main polymorphic variants for bioelectrochemical measurements of catalytic response. <i>Bioelectrochemistry</i> , 2021 , 138, 107729 | 5.6 | 4 |
| 10 | Redox properties and crystal structures of a <i>Desulfovibrio vulgaris</i> flavodoxin mutant in the monomeric and homodimeric forms. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 496-505 | 4 | 3 |
| 9 | Electron transfer between cytochrome C peroxidase and ferrocene. <i>Biochemical Society Transactions</i> , 1995 , 23, 153S | 5.1 | 3 |
| 8 | Expression and role of CYP505A1 in pathogenicity of <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140268 | 4 | 3 |
| 7 | N- and S-oxygenation activity of truncated human flavin-containing monooxygenase 3 and its common polymorphic variants. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 697, 108663 | 4.1 | 3 |
| 6 | Rational Design of P450 Enzymes for Biotechnology. <i>Focus on Biotechnology</i> , 2001 , 71-104 | | 3 |
| 5 | Iron-based redox centres of reductase and oxygenase components of phenol hydroxylase from <i>A. radioresistens</i> : a redox chain working at highly positive redox potentials. <i>Metallomics</i> , 2012 , 4, 72-7 | 4.5 | 2 |
| 4 | Laser-written nanoporous silicon diffraction gratings for biosensors. <i>Applied Optics</i> , 2013 , 52, 8802-8 | 1.7 | 1 |
| 3 | Chimeric cytochrome P450 3A4 used for in vitro prediction of food-drug interactions. <i>Biotechnology and Applied Biochemistry</i> , 2020 , 67, 541-548 | 2.8 | 1 |
| 2 | Human flavin-containing monooxygenase 1 and its long-sought hydroperoxyflavin intermediate. <i>Biochemical Pharmacology</i> , 2021 , 193, 114763 | 6 | 0 |
| 1 | Drug Metabolism: Other Phase I Enzymes 2021 , | | |