

Sheila J Sadeghi

List of Publications by Year in Descending Order

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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	Drug Metabolism: Other Phase I Enzymes 2021 ,		
66	Engineered human CYP2C9 and its main polymorphic variants for bioelectrochemical measurements of catalytic response. <i>Bioelectrochemistry</i> , 2021 , 138, 107729	5.6	4
65	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
64	Human flavin-containing monooxygenase 1 and its long-sought hydroperoxyflavin intermediate. <i>Biochemical Pharmacology</i> , 2021 , 193, 114763	6	0
63	Production of drug metabolites by human FMO3 in Escherichia coli. <i>Microbial Cell Factories</i> , 2020 , 19, 74	6.4	6
62	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
61	Biochemical features of dye-decolorizing peroxidases: Current impact on lignin degradation. <i>Biotechnology and Applied Biochemistry</i> , 2020 , 67, 751-759	2.8	10
60	Peroxide-driven catalysis of the heme domain of A. radioresistens cytochrome P450 116B5 for sustainable aromatic rings oxidation and drug metabolites production. <i>New Biotechnology</i> , 2020 , 54, 71-79	6.4	11
59	Expression and role of CYP505A1 in pathogenicity of Fusarium oxysporum f. sp. lactucae. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140268	4	3
58	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
57	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
56	Enzymatically Produced Trimethylamine N-Oxide: Conserving It or Eliminating It. <i>Catalysts</i> , 2019 , 9, 10284		5
55	Modulation of the interaction between human P450 3A4 and B. megaterium reductase via engineered loops. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 116-125	4	10
54	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
53	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
52	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
51	Identification of human flavin-containing monooxygenase 3 substrates by a colorimetric screening assay. <i>Analytical Biochemistry</i> , 2017 , 522, 46-52	3.1	11

50	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
49	Chemical applications of Class B flavoprotein monooxygenases. <i>Rendiconti Lincei</i> , 2017 , 28, 195-206	1.7	11
48	Inactivation mechanism of N61S mutant of human FMO3 towards trimethylamine. <i>Scientific Reports</i> , 2017 , 7, 14668	4.9	15
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	Escherichia coli Overexpressing a Baeyer-Villiger Monooxygenase from Acinetobacter radioresistens Becomes Resistant to Imipenem. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 64-74	5.9	16
45	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
44	Graphene oxide-mediated electrochemistry of glucose oxidase on glassy carbon electrodes. <i>Biotechnology and Applied Biochemistry</i> , 2016 , 63, 157-62	2.8	7
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	Layer-by-Layer Assembly of Supported Lipid Bilayer Poly-L-Lysine Multilayers. <i>Biomacromolecules</i> , 2016 , 17, 324-35	6.9	40
41	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
40	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
39	Electrochemistry of Canis familiaris cytochrome P450 2D15 with gold nanoparticles: An alternative to animal testing in drug discovery. <i>Bioelectrochemistry</i> , 2015 , 105, 110-6	5.6	9
38	CYP116B5: a new class VII catalytically self-sufficient cytochrome P450 from Acinetobacter radioresistens that enables growth on alkanes. <i>Molecular Microbiology</i> , 2015 , 95, 539-54	4.1	27
37	Hydrogen production at high Faradaic efficiency by a bio-electrode based on TiO ₂ adsorption of a new [FeFe]-hydrogenase from Clostridium perfringens. <i>Bioelectrochemistry</i> , 2015 , 106, 258-62	5.6	23
36	Human flavin-containing monooxygenase 3 on graphene oxide for drug metabolism screening. <i>Analytical Chemistry</i> , 2015 , 87, 2974-80	7.8	19
35	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
34	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
33	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

32	Laser-written nanoporous silicon diffraction gratings for biosensors. <i>Applied Optics</i> , 2013 , 52, 8802-8	1.7	1
31	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
30	Dynamics and flexibility of human aromatase probed by FTIR and time resolved fluorescence spectroscopy. <i>PLoS ONE</i> , 2013 , 8, e82118	3.7	23
29	In vitro drug metabolism by C-terminally truncated human flavin-containing monooxygenase 3. <i>Biochemical Pharmacology</i> , 2012 , 83, 551-8	6	32
28	Drug-drug interactions and cooperative effects detected in electrochemically driven human cytochrome P450 3A4. <i>Bioelectrochemistry</i> , 2012 , 86, 87-91	5.6	37
27	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
26	Toward reduction in animal sacrifice for drugs: molecular modeling of Macaca fascicularis P450 2C20 for virtual screening of Homo sapiens P450 2C8 substrates. <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 479-89	2.8	4
25	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
24	Fluorescence detection of ligand binding to labeled cytochrome P450 BM3. <i>Dalton Transactions</i> , 2012 , 41, 2018-25	4.3	13
23	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
22	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
21	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
20	Direct electrochemistry of an [FeFe]-hydrogenase on a TiO ₂ electrode. <i>Chemical Communications</i> , 2011 , 47, 10566-8	5.8	44
19	Breakthrough in P450 bioelectrochemistry and future perspectives. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 237-48	4	98
18	An electrochemical microfluidic platform for human P450 drug metabolism profiling. <i>Analytical Chemistry</i> , 2010 , 82, 10222-7	7.8	42
17	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
16	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
15	Electro-catalysis by immobilised human flavin-containing monooxygenase isoform 3 (hFMO3). <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1403-9	4.4	18

14	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
13	Engineering heme binding sites in monomeric rop. <i>Journal of Biological Inorganic Chemistry</i> , 2009 , 14, 497-505	3.7	4
12	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
11	Protein and electrode engineering for the covalent immobilization of P450 BMP on gold. <i>Analytical Chemistry</i> , 2008 , 80, 8438-46	7.8	52
10	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
9	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
8	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
7	Molecular Lego: design of molecular assemblies of P450 enzymes for nanobiotechnology. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 133-45	11.8	86
6	Engineering and design in the bioelectrochemistry of metalloproteins. <i>Current Opinion in Structural Biology</i> , 2001 , 11, 491-9	8.1	65
5	Rational Design of P450 Enzymes for Biotechnology. <i>Focus on Biotechnology</i> , 2001 , 71-104		3
4	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
3	Engineering artificial redox chains by molecular Lego. <i>Faraday Discussions</i> , 2000 , 135-53; discussion 171-90	3.6	40
2	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
1	Electron transfer between cytochrome C peroxidase and ferrocene. <i>Biochemical Society Transactions</i> , 1995 , 23, 153S	5.1	3