

# Chalermchai Khemtong

## List of Publications by Year in descending order

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39  
papers

3,238  
citations

361413

20  
h-index

361022

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39  
all docs

39  
docs citations

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times ranked

5624  
citing authors

#	ARTICLE	IF	CITATIONS
1	<sup>13</sup> C-Labeled Diethyl Ketoglutarate Derivatives as Hyperpolarized Probes of Ketoglutarate Dehydrogenase Activity. <i>Analysis &amp; Sensing</i> , 2021, 1, 156-160.	2.0	3
2	Co-Polarized [1- <sup>13</sup> C]Pyruvate and [1,3- <sup>13</sup> C <sub>2</sub> ]Acetoacetate Provide a Simultaneous View of Cytosolic and Mitochondrial Redox in a Single Experiment. <i>ACS Sensors</i> , 2021, 6, 3967-3977.	7.8	5
3	Lactate Dehydrogenase A Governs Cardiac Hypertrophic Growth in Response to Hemodynamic Stress. <i>Cell Reports</i> , 2020, 32, 108087.	6.4	43
4	Mitochondrial substrate utilization regulates cardiomyocyte cell-cycle progression. <i>Nature Metabolism</i> , 2020, 2, 167-178.	11.9	131
5	Mitochondrial Substrate Utilization Regulates Cardiomyocyte Cell Cycle Progression. <i>Nature Metabolism</i> , 2020, 2, 167-178.	11.9	49
6	Metabolism of hyperpolarized <sup>13</sup> C-acetoacetate to <sup>12</sup> C-hydroxybutyrate detects real-time mitochondrial redox state and dysfunction in heart tissue. <i>NMR in Biomedicine</i> , 2019, 32, e4091.	2.8	16
7	Effects of deuteration on transamination and oxidation of hyperpolarized <sup>13</sup> C-Pyruvate in the isolated heart. <i>Journal of Magnetic Resonance</i> , 2019, 301, 102-108.	2.1	14
8	Brain metabolism modulates neuronal excitability in a mouse model of pyruvate dehydrogenase deficiency. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	53
9	Real-time hyperpolarized <sup>13</sup> C magnetic resonance detects increased pyruvate oxidation in pyruvate dehydrogenase kinase 2/4 "double knockout mouse livers. <i>Scientific Reports</i> , 2019, 9, 16480.	3.3	15
10	Probing carbohydrate metabolism using hyperpolarized <sup>13</sup> C-labeled molecules. <i>NMR in Biomedicine</i> , 2019, 32, e4018.	2.8	11
11	Rational Design of [ <sup>13</sup> C, <sub>D</sub> <sup>14</sup> ] <i>tert</i> -butylbenzene as a Scaffold Structure for Designing Long-lived Hyperpolarized <sup>13</sup> C Probes. <i>Chemistry - an Asian Journal</i> , 2018, 13, 280-283.	3.3	8
12	Targeting hepatic pyruvate dehydrogenase kinases restores insulin signaling and mitigates ChREBP-mediated lipogenesis in diet-induced obese mice. <i>Molecular Metabolism</i> , 2018, 12, 12-24.	6.5	37
13	Esterase-Catalyzed Production of Hyperpolarized <sup>13</sup> C-Enriched Carbon Dioxide in Tissues for Measuring pH. <i>ACS Sensors</i> , 2018, 3, 2232-2236.	7.8	10
14	MOXI Is a Mitochondrial Micropeptide That Enhances Fatty Acid <sup>12</sup> C-Oxidation. <i>Cell Reports</i> , 2018, 23, 3701-3709.	6.4	118
15	A novel inhibitor of pyruvate dehydrogenase kinase stimulates myocardial carbohydrate oxidation in diet-induced obesity. <i>Journal of Biological Chemistry</i> , 2018, 293, 9604-9613.	3.4	24
16	Influence of Dy <sup>3+</sup> and Tb <sup>3+</sup> doping on <sup>13</sup> C dynamic nuclear polarization. <i>Journal of Chemical Physics</i> , 2017, 146, 014303.	3.0	14
17	In vivo assessment of intracellular redox state in rat liver using hyperpolarized [ <sup>13</sup> C]Alanine. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1741-1748.	3.0	23
18	The rate of lactate production from glucose in hearts is not altered by per-deuteration of glucose. <i>Journal of Magnetic Resonance</i> , 2017, 284, 86-93.	2.1	12

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19	Impact of Ho <sup>3+</sup> -doping on <sup>13</sup> C dynamic nuclear polarization using trityl OX063 free radical. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21351-21359.	2.8	16
20	Hyperpolarized <sup>15</sup> N-pyridine Derivatives as pH-Sensitive MRI Agents. <i>Scientific Reports</i> , 2015, 5, 9104.	3.3	86
21	Hyperpolarized <sup>13</sup> C NMR detects rapid drug-induced changes in cardiac metabolism. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 312-319.	3.0	35
22	The efficiency of DPPH as a polarising agent for DNP-NMR spectroscopy. <i>RSC Advances</i> , 2012, 2, 12812.	3.6	31
23	Investigation of <i>In Vivo</i> Targeting Kinetics of <sup>19</sup> F-Specific Superparamagnetic Nanoprobes by Time-Resolved MRI. <i>Theranostics</i> , 2011, 1, 263-273.	10.0	36
24	Nanonization strategies for poorly water-soluble drugs. <i>Drug Discovery Today</i> , 2011, 16, 354-360.	6.4	525
25	Off-resonance saturation MRI of superparamagnetic nanoprobes: Theoretical models and experimental validations. <i>Journal of Magnetic Resonance</i> , 2011, 209, 53-60.	2.1	16
26	<i>In vivo</i> angiogenesis imaging of solid tumors by <sup>19</sup> F- <sup>125</sup> I- <sup>3</sup> -targeted, dual-modality micellar nanoprobes. <i>Experimental Biology and Medicine</i> , 2010, 235, 957-965.	2.4	23
27	<sup>125</sup> I-Lapachone Micellar Nanotherapeutics for Non-Small Cell Lung Cancer Therapy. <i>Cancer Research</i> , 2010, 70, 3896-3904.	0.9	135
28	MRI-Visible Micellar Nanomedicine for Targeted Drug Delivery to Lung Cancer Cells. <i>Molecular Pharmaceutics</i> , 2010, 7, 32-40.	4.6	175
29	Off-resonance saturation magnetic resonance imaging of superparamagnetic polymeric micelles. , 2009, 2009, 4095-7.		5
30	<i>In vivo</i> Off-Resonance Saturation Magnetic Resonance Imaging of <sup>19</sup> F- <sup>125</sup> I-Targeted Superparamagnetic Nanoparticles. <i>Cancer Research</i> , 2009, 69, 1651-1658.	0.9	94
31	A novel strategy for surface modification of superparamagnetic iron oxide nanoparticles for lung cancer imaging. <i>Journal of Materials Chemistry</i> , 2009, 19, 6367.	6.7	89
32	Polymeric nanomedicine for cancer MR imaging and drug delivery. <i>Chemical Communications</i> , 2009, , 3497.	4.1	165
33	Zinc Superparamagnetic Iron Oxide Nanoparticles for Use as MRI Contrast Agents. , 2007, , .		0
34	Multifunctional Polymeric Micelles as Cancer-Targeted, MRI-Ultrasensitive Drug Delivery Systems. <i>Nano Letters</i> , 2006, 6, 2427-2430.	9.1	1,180
35	Preparation of 7-azidocarbonyl-2,4,9-trithiaadamantane by a new thioacetal crown synthetic method. <i>Journal of Sulfur Chemistry</i> , 2005, 26, 105-109.	2.0	3
36	Formation of an Inclusion Complex of a New Transition Metal Ligand in <sup>125</sup> I-Cyclodextrin. <i>Supramolecular Chemistry</i> , 2005, 17, 335-341.	1.2	5

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37	Photochemical Patterning of a Self-Assembled Monolayer of 7-Diazomethylcarbonyl-2,4,9-trithiaadmantane on Gold Films via Wolff Rearrangement. <i>Langmuir</i> , 2004, 20, 4933-4938.	3.5	26
38	Synthesis of PAA-PAMPS-PNaSS Terpolymers as Ultraviolet-Tagged Scale Inhibitor for Industrial Water Cooling System. <i>Key Engineering Materials</i> , 0, 757, 68-72.	0.4	3
39	Preparation and Application of Poly(Acrylic Acid-co-Acrylamide) on Scale and Corrosion Inhibition. <i>Key Engineering Materials</i> , 0, 824, 142-148.	0.4	4