

# Kui-Thong Tan

## List of Publications by Year in descending order

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55  
papers

2,088  
citations

236925

25  
h-index

233421

45  
g-index

56  
all docs

56  
docs citations

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times ranked

2359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environment-sensitive Fluorescent Turn-On Probes Targeting Hydrophobic Ligand-Binding Domains for Selective Protein Detection. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8124-8128.	13.8	174
2	Development of a Highly $\hat{\pm}$ -Regioselective Metal-Mediated Allylation Reaction in Aqueous Media: A New Mechanistic Proposal for the Origin of $\hat{\pm}$ -Homoallylic Alcohols. <i>Journal of the American Chemical Society</i> , 2003, 125, 2958-2963.	13.7	145
3	Membrane targeting mechanism of Rab GTPases elucidated by semisynthetic protein probes. <i>Nature Chemical Biology</i> , 2010, 6, 534-540.	8.0	119
4	Semisynthetic Fluorescent Sensor Proteins Based on Self-Labeling Protein Tags. <i>Journal of the American Chemical Society</i> , 2009, 131, 5873-5884.	13.7	115
5	Interaction analysis of prenylated Rab GTPase with Rab escort protein and GDP dissociation inhibitor explains the need for both regulators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12294-12299.	7.1	99
6	Diverse Cyclization Catalyzed by In(OTf) <sub>3</sub> for the Convergent Assembly of Substituted Tetrahydrofurans and Tetrahydropyrans. <i>Organic Letters</i> , 2001, 3, 2669-2672.	4.6	91
7	A Semisynthetic Fluorescent Sensor Protein for Glutamate. <i>Journal of the American Chemical Society</i> , 2012, 134, 7676-7678.	13.7	87
8	Protein sensing in living cells by molecular rotor-based fluorescence-switchable chemical probes. <i>Chemical Science</i> , 2016, 7, 301-307.	7.4	76
9	A selective and sensitive fluorescent albumin probe for the determination of urinary albumin. <i>Chemical Communications</i> , 2014, 50, 11507-11510.	4.1	73
10	The Lipid Modifications of Ras that Sense Membrane Environments and Induce Local Enrichment. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8784-8787.	13.8	67
11	The Lipidated Membrane Anchor of Full Length N-Ras Protein Shows an Extensive Dynamics as Revealed by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 13840-13846.	13.7	66
12	Semisynthesis of Fluorescent Metabolite Sensors on Cell Surfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 16235-16242.	13.7	66
13	Selective Cross-Linking of Interacting Proteins Using Self-Labeling Tags. <i>Journal of the American Chemical Society</i> , 2009, 131, 17954-17962.	13.7	65
14	An Unusual Approach to the Synthesis of Enantiomerically Cis Linear Homoallylic Alcohols Based on the Steric Interaction Mechanism of Camphor Scaffold. <i>Organic Letters</i> , 2004, 6, 1281-1283.	4.6	64
15	Flexibility of Ras Lipid Modifications Studied by 2H Solid-State NMR and Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2007, 93, 2697-2712.	0.5	58
16	A Rapid SNAP-Tag Fluorogenic Probe Based on an Environment-Sensitive Fluorophore for No-Wash Live Cell Imaging. <i>ACS Chemical Biology</i> , 2014, 9, 2359-2365.	3.4	51
17	<i>S</i> - <i>Cis</i> Diene Conformation: A New Bathochromic Shift Strategy for Near-Infrared Fluorescence Switchable Dye and the Imaging Applications. <i>Journal of the American Chemical Society</i> , 2018, 140, 5224-5234.	13.7	51
18	Near-infrared fluorescence activation probes based on disassembly-induced emission cyanine dye. <i>Chemical Science</i> , 2015, 6, 4643-4649.	7.4	46

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19	Structural Model of the Membrane-Bound C Terminus of Lipid-Modified Human N-Ras Protein. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5387-5390.	13.8	41
20	Development of a highly $\hat{\pm}$ -regioselective indium-mediated allylation reaction in water. <i>Tetrahedron Letters</i> , 2001, 42, 8701-8703.	1.4	38
21	The First Example of Enantioselective Allyl Transfer from a Linear Homoallylic Alcohol to an Aldehyde. <i>Organic Letters</i> , 2002, 4, 2985-2987.	4.6	35
22	A new mechanistic proposal for the origin of $\hat{\pm}$ -homoallylic alcohols in indium-mediated allylation reactions in water. <i>Tetrahedron Letters</i> , 2001, 42, 8705-8708.	1.4	33
23	Homoallylic sterol/indium(III) Lewis acid: a novel enantioselective allylation system exhibiting $\hat{\pm}$ -regioselectivity. <i>Tetrahedron Letters</i> , 2001, 42, 9277-9280.	1.4	28
24	Chikungunya virus inhibition by synthetic coumarin-guanosine conjugates. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 136-143.	5.5	27
25	Affinity-Switchable Lateral Flow Assay. <i>Analytical Chemistry</i> , 2021, 93, 5556-5561.	6.5	27
26	Fluorescent Probe Encapsulated in Avidin Protein to Eliminate Nonspecific Fluorescence and Increase Detection Sensitivity in Blood Serum. <i>Analytical Chemistry</i> , 2016, 88, 7873-7877.	6.5	26
27	Target-activated streptavidin-biotin controlled binding probe. <i>Chemical Science</i> , 2018, 9, 770-776.	7.4	24
28	Design, Synthesis, and Characterization of Peptide-Based Rab Geranylgeranyl Transferase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 8025-8037.	6.4	22
29	Fluorescent Probe Encapsulated in SNAP-Tag Protein Cavity To Eliminate Nonspecific Fluorescence and Increase Detection Sensitivity. <i>Bioconjugate Chemistry</i> , 2016, 27, 1872-1879.	3.6	21
30	Evaluating Cellular Drug Uptake with Fluorescent Sensor Proteins. <i>ACS Sensors</i> , 2017, 2, 1191-1197.	7.8	20
31	Kinetic Mechanism of Metal Enhanced Fluorescence by Gold Nanoparticle with Avidin-Biotin as Spacer and by Gold-Silver Core-Shell Nanoparticle Using Fluorescence Lifetime Image Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28431-28438.	3.1	19
32	Development of Selective RabGGTase Inhibitors and Crystal Structure of a RabGGTase-Inhibitor Complex. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3747-3750.	13.8	17
33	Fluorescence amplified detection of proteases by the catalytic activation of a semisynthetic sensor. <i>Chemical Communications</i> , 2013, 49, 6212.	4.1	16
34	Steric-Dependent Label-Free and Washing-Free Enzyme Amplified Protein Detection with Dual-Functional Synthetic Probes. <i>Analytical Chemistry</i> , 2015, 87, 4231-4236.	6.5	16
35	Signal Amplification and Detection of Small Molecules via the Activation of Streptavidin and Biotin Recognition. <i>Analytical Chemistry</i> , 2019, 91, 12461-12467.	6.5	16
36	Domino Reaction for the Synthesis of Polysubstituted Pyrroles and Lamellarin R. <i>Journal of Organic Chemistry</i> , 2020, 85, 9835-9843.	3.2	16

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37	Membrane binding of a lipidated N-Ras protein studied in lipid monolayers. <i>European Biophysics Journal</i> , 2007, 36, 491-498.	2.2	15
38	Fluorescence switchable probes based on a molecular rotor for selective detection of proteins and small molecules. <i>Chemical Communications</i> , 2015, 51, 16197-16200.	4.1	11
39	Imaging and Quantification of Secreted Peroxynitrite at the Cell Surface by a Streptavidin-Biotin-Controlled Binding Probe. <i>ChemBioChem</i> , 2018, 19, 2584-2590.	2.6	11
40	Synthesis and antiviral activities of quinazolinamine-coumarin conjugates toward chikungunya and hepatitis C viruses. <i>European Journal of Medicinal Chemistry</i> , 2022, 232, 114164.	5.5	11
41	Progesterone receptor membrane component 1 is involved in oral cancer cell metastasis. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 9737-9751.	3.6	8
42	Fluorogenic Protein Labeling Probes to Study the Morphological Interplay between PreLamin and Mature Lamin. <i>Bioconjugate Chemistry</i> , 2017, 28, 2895-2902.	3.6	7
43	Rapid and Selective Labeling of Endogenous Transmembrane Proteins in Living Cells with a Difluorophenyl Ester Affinity-Based Probe. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3416-3420.	3.3	7
44	Silver-Coated Cu <sub>2</sub> O Nanoparticle Substrates for Surface Azide-Alkyne Cycloaddition. <i>ACS Applied Nano Materials</i> , 2021, 4, 1558-1566.	5.0	7
45	Self-Immolative Difluorophenyl Ester Linker for Affinity-Based Fluorescence Turn-on Protein Detection. <i>Analytical Chemistry</i> , 2020, 92, 15463-15471.	6.5	5
46	Glucose and Ethanol Detection with an Affinity-Switchable Lateral Flow Assay. <i>Analytical Chemistry</i> , 2022, 94, 5084-5090.	6.5	5
47	Environment-sensitive Fluorescent Turn-on Chemical Probe for the Specific Detection of O <sup>6</sup> -Methylguanine-DNA Methyltransferase (MGMT) in Living Cells. <i>Journal of the Chinese Chemical Society</i> , 2016, 63, 688-693.	1.4	4
48	Improved Stabilities of Labeling Probes for the Selective Modification of Endogenous Proteins in Living Cells and In Vivo. <i>Chemistry - an Asian Journal</i> , 2021, 16, 937-948.	3.3	4
49	Biotinylated fluorescent probe for the specific and quantitative determination of blood glucose. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 114-118.	1.4	3
50	Fluorescence Turn-on-Lectin Sensors Fabricated by Ligand-Assisted Labeling Probes for Detecting Protein-Glycoprotein Interactions. <i>Biomacromolecules</i> , 2020, 21, 815-824.	5.4	3
51	Affinity-switchable biotin probes for the analysis of enzymes and small reactive molecules on microarray platform. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 291-297.	1.4	2
52	Enterovirus Inhibition by Hinged Aromatic Compounds with Polynuclei. <i>Molecules</i> , 2020, 25, 3821.	3.8	1
53	The First In(OTf) <sub>3</sub> -Catalyzed Conversion of Kinetically Formed Homoallylic Alcohols into the Thermodynamically Preferred Regioisomers: Application to the Synthesis of 22 $\alpha$ -Sterols This research was supported by the National University of Singapore.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2921-2922.	13.8	1
54	Rapid relaxation pathway of the excited state of linear merocyanines in solutions. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 1105-1118.	1.4	0

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55	Multilayers of avidinâ€”biotin complexes as spacers used in the study of the effect of metalâ€”enhanced fluorescence. Journal of the Chinese Chemical Society, 0, , .	1.4	0