

Cheng-Chung Chang

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

1,779

citations

23

h-index

41

g-index

73

ext. papers

1,962

ext. citations

6.2

avg, IF

4.6

L-index

#	Paper	IF	Citations
67	Surface plasmon-enhanced fluorescence and surface-enhanced Raman scattering dual-readout chip constructed with silver nanowires: Label-free clinical detection of direct-bilirubin. <i>Biosensors and Bioelectronics</i> , 2022 , 213, 114440	11.8	1
66	Tumor tissues diagnosis with PIEE lipid droplet vesicles. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129269	8.5	2
65	Optimization of photoelectrode by structural engineering for efficiency improvement of dye-sensitized solar cells at different light intensity. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159478 ^{5.7}		0
64	Direct Bilirubin Detection Using Surface-Enhanced Raman Spectroscopy. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	
63	A 3D Plasmonic Crossed-Wire Nanostructure for Surface-Enhanced Raman Scattering and Plasmon-Enhanced Fluorescence Detection. <i>Molecules</i> , 2021 , 26,	4.8	2
62	Characterizations and Antibacterial Efficacy of Chitosan Oligomers Synthesized by Microwave-Assisted Hydrogen Peroxide Oxidative Depolymerization Method for Infectious Wound Applications. <i>Materials</i> , 2021 , 14,	3.5	3
61	Imiquimod Accelerated Antitumor Response by Targeting Lysosome Adaptation in Skin Cancer Cells. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 2219-2228.e8	4.3	1
60	Pilot imaging study of o-BMVC foci for discrimination of indeterminate cytology in diagnosing fine-needle aspiration of thyroid nodules. <i>Scientific Reports</i> , 2021 , 11, 23475	4.9	2
59	Enhancement of power conversion efficiency of dye-sensitized solar cells for indoor applications by using a highly responsive organic dye and tailoring the thickness of photoactive layer. <i>Journal of Power Sources</i> , 2020 , 479, 229095	8.9	4
58	Structural Basis for Targeting T:T Mismatch with Triaminotriazine-Acridine Conjugate Induces a U-Shaped Head-to-Head Four-Way Junction in CTG Repeat DNA. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11165-11172	16.4	12
57	Enhancement in the solar efficiency of a dye-sensitized solar cell by molecular engineering of an organic dye incorporating N-alkyl-attached 1,8-naphthalamide derivative. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11407-11416	7.1	8
56	Dual-acting antibacterial porous chitosan film embedded with a photosensitizer. <i>Science and Technology of Advanced Materials</i> , 2020 , 21, 562-572	7.1	1
55	Synthesis and Application in Cell Imaging of Acridone Derivatives. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8708	2.6	1
54	Organic small molecule for detection and photodegradation of mitochondrial DNA mutations. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5947-5955	7.3	
53	Flexible Photonic Crystal Material for Multiple Anticounterfeiting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9858-9864	9.5	30
52	Construction of emission-tunable nanoparticles based on a TICT-AIEgen: impact of aggregation-induced emission versus twisted intramolecular charge transfer. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 2869-2876	7.3	18
51	Silencing Stem Cell Factor Gene in Fibroblasts to Regulate Paracrine Factor Productions and Enhance c-Kit Expression in Melanocytes on Melanogenesis. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	23

50	The G-quadruplex fluorescent probe 3,6-bis(1-methyl-2-vinyl-pyridinium) carbazole diiodide as a biosensor for human cancers. <i>Scientific Reports</i> , 2018 , 8, 16082	4.9	21
49	Efficiency improvement of dye-sensitized solar cells by in situ fluorescence resonance energy transfer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9081-9089	13	19
48	Fabrication of a reticular poly(lactide-co-glycolide) cylindrical scaffold for the development of microvascular networks. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 163-171	7.1	8
47	A fluorescent pH probe for acidic organelles in living cells. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7936-7943	3.9	15
46	A dual photoluminescence enhancement system: stabilization of a water soluble AIEE fluorogen using silver nanowire. <i>Faraday Discussions</i> , 2017 , 196, 55-69	3.6	3
45	Development of double-generation gold nanoparticle chip-based dengue virus detection system combining fluorescence turn-on probes. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 90-8	11.8	15
44	A Dual Anticancer Efficacy Molecule: A Selective Dark Cytotoxicity Photosensitizer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29883-29892	9.5	12
43	Thin-Film Transistor-Based Biosensors for Determining Stoichiometry of Biochemical Reactions. <i>PLoS ONE</i> , 2016 , 11, e0169094	3.7	6
42	Direct evidence of mitochondrial G-quadruplex DNA by using fluorescent anti-cancer agents. <i>Nucleic Acids Research</i> , 2015 , 43, 10102-13	20.1	77
41	Multiple fluorescent behaviors of phenothiazine-based organic molecules. <i>Dyes and Pigments</i> , 2015 , 112, 34-41	4.6	22
40	Novel molecules targeting DNA G-quadruplexes: carbazole derivatives 2015 , 192-204		
39	Manipulation of light harvesting for efficient dye-sensitized solar cell by doping an ultraviolet light-capturing fluorophore. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 106-111	6.8	13
38	A Fluorescent Anti-Cancer Agent, 3,6-bis(1-methyl-4-vinylpyridinium) Carbazole Diiodide, Stains G-Quadruplexes in Cells and Inhibits Tumor Growth. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 1964-70	2	10
37	Photostable BODIPY-based molecule with simultaneous type I and type II photosensitization for selective photodynamic cancer therapy. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1576-1583	7.3	26
36	Improved Power Conversion Efficiency of Dye-Sensitized Solar Cells by Fluorophore-Assisted Spectrum Down-Conversion. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H404-H409	3.9	5
35	Synthesis of a photostable near-infrared-absorbing photosensitizer for selective photodamage to cancer cells. <i>Chemistry - A European Journal</i> , 2014 , 20, 9709-15	4.8	11
34	Chemical principles for the design of a novel fluorescent probe with high cancer-targeting selectivity and sensitivity. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 1217-28	3.7	20
33	Auto-adhesive transdermal drug delivery patches using beetle inspired micropillar structures. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5963-5970	7.3	9

32	Direct visualization of the quadruplex structures in human chromosome using FRET: application of quadruplex stabilizer and duplex-binding fluorophore. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 566-73	11.8	6
31	Aggregation induced photodynamic therapy enhancement based on linear and nonlinear excited FRET of fluorescent organic nanoparticles. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2350-2357	7.3	34
30	Special reactive oxygen species generation by a highly photostable BODIPY-based photosensitizer for selective photodynamic therapy. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12935-43	9.5	44
29	Photo-induced antitumor effect of 3,6-bis(1-methyl-4-vinylpyridinium) carbazole diiodide. <i>BioMed Research International</i> , 2013 , 2013, 930281	3	8
28	Fluorescent probe for visualizing guanine-quadruplex DNA by fluorescence lifetime imaging microscopy. <i>Journal of Biomedical Optics</i> , 2013 , 18, 101309	3.5	43
27	Preparation of fluoroionophores based on diamine-salicylaldehyde derivatives. <i>Dyes and Pigments</i> , 2012 , 94, 371-379	4.6	15
26	Selective photodynamic therapy based on aggregation-induced emission enhancement of fluorescent organic nanoparticles. <i>Biomaterials</i> , 2012 , 33, 897-906	15.6	75
25	Induction of senescence in cancer cells by the G-quadruplex stabilizer, BMVC4, is independent of its telomerase inhibitory activity. <i>British Journal of Pharmacology</i> , 2012 , 167, 393-406	8.6	35
24	Aggregation-induced emission enhancement characteristics of naphthalimide derivatives and their applications in cell imaging. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3170		117
23	Dual optical responses of phenothiazine derivatives: near-IR chromophore and water-soluble fluorescent organic nanoparticles. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8653		21
22	Detection of G-quadruplexes in cells and investigation of G-quadruplex structure of d(T2AG3)4 in K ⁺ solution by a carbazole derivative: BMVC. <i>Methods in Molecular Biology</i> , 2010 , 608, 183-206	1.4	6
21	The synthesis and photodynamic properties of meso-substituted, cationic porphyrin derivatives in HeLa cells. <i>Dyes and Pigments</i> , 2010 , 84, 140-147	4.6	22
20	Fluorescent organic nanoparticle formation in lysosomes for cancer cell recognition. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 2036-9	3.9	38
19	G-quadruplex stabilizer 3,6-bis(1-methyl-4-vinylpyridinium)carbazole diiodide induces accelerated senescence and inhibits tumorigenic properties in cancer cells. <i>Molecular Cancer Research</i> , 2008 , 6, 955-64	6.6	44
18	A dual selective antitumor agent and fluorescence probe: the binary BMVC-porphyrin photosensitizer. <i>ChemMedChem</i> , 2008 , 3, 725-8	3.7	10
17	Absorption and emission spectral shifts of rose bengal associated with DMPC liposomes. <i>Dyes and Pigments</i> , 2008 , 79, 170-175	4.6	65
16	Self-assembled star-shaped chlorin-core poly(epsilon-caprolactone)-poly(ethylene glycol) diblock copolymer micelles for dual chemo-photodynamic therapies. <i>Biomaterials</i> , 2008 , 29, 3599-608	15.6	146
15	A handheld device for potential point-of-care screening of cancer. <i>Analyst, The</i> , 2007 , 132, 745-9	5	36

14	Effect of different electronic properties on 9-aryl-substituted BMVC derivatives for new fluorescence probes. <i>Journal of Luminescence</i> , 2007 , 127, 41-47	3.8	24
13	Investigation of spectral conversion of d(TTAGGG) ₄ and d(TTAGGG) ₁₃ upon potassium titration by a G-quadruplex recognizer BMVC molecule. <i>Nucleic Acids Research</i> , 2007 , 35, 2846-60	20.1	81
12	Verification of antiparallel G-quadruplex structure in human telomeres by using two-photon excitation fluorescence lifetime imaging microscopy of the 3,6-Bis(1-methyl-4-vinylpyridinium)carbazole diiodide molecule. <i>Analytical Chemistry</i> , 2006 , 78, 2810-5	7.8	81
11	Solvent effect on photophysical properties of a fluorescence probe: BMVC. <i>Journal of Luminescence</i> , 2006 , 119-120, 84-90	3.8	34
10	Simple Method in Diagnosing Cancer Cells by a Novel Fluorescence Probe BMVC. <i>Journal of the Chinese Chemical Society</i> , 2005 , 52, 1069-1072	1.5	6
9	Thionin in a cyclodextrin nanocavity: Measuring local compressibilities by pressure tuning hole burning spectroscopy. <i>Chemical Physics Letters</i> , 2005 , 413, 335-341	2.5	5
8	A novel carbazole derivative, BMVC: a potential antitumor agent and fluorescence marker of cancer cells. <i>Chemistry and Biodiversity</i> , 2004 , 1, 1377-84	2.5	66
7	Laser-induced hole filling by energy transfer between chromophores bound to DNA. <i>Journal of Luminescence</i> , 2004 , 107, 213-219	3.8	2
6	Detection of quadruplex DNA structures in human telomeres by a fluorescent carbazole derivative. <i>Analytical Chemistry</i> , 2004 , 76, 4490-4	7.8	147
5	A Carbazole Derivative Synthesis for Stabilizing the Quadruplex Structure. <i>Journal of the Chinese Chemical Society</i> , 2003 , 50, 185-188	1.5	40
4	A fluorescent carbazole derivative: high sensitivity for quadruplex DNA. <i>Analytical Chemistry</i> , 2003 , 75, 6177-83	7.8	116
3	Structural isomers and binding sites of guanine-rich quadruplexes investigated by induced circular dichroism of thionin: loops and tails. <i>Journal of Biomolecular Structure and Dynamics</i> , 2003 , 21, 135-40	3.6	9
2	High-pressure study of dye-DNA interaction. <i>Journal of Luminescence</i> , 2002 , 98, 163-170	3.8	1
1	Energy transfer dynamics of thionin investigated by broad non-resonant holes. <i>Journal of Luminescence</i> , 2002 , 98, 257-263	3.8	1