

Cheng-Chung Chang

List of Publications by Year in descending order

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72
papers

2,142
citations

218592

26
h-index

233338

45
g-index

73
all docs

73
docs citations

73
times ranked

2760
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of Quadruplex DNA Structures in Human Telomeres by a Fluorescent Carbazole Derivative. <i>Analytical Chemistry</i> , 2004, 76, 4490-4494.	3.2	160
2	Self-assembled star-shaped chlorin-core poly(ϵ -caprolactone)- <i>poly</i> (ethylene glycol) diblock copolymer micelles for dual chemo-photodynamic therapies. <i>Biomaterials</i> , 2008, 29, 3599-3608.	5.7	159
3	A Fluorescent Carbazole Derivative: High Sensitivity for Quadruplex DNA. <i>Analytical Chemistry</i> , 2003, 75, 6177-6183.	3.2	125
4	Aggregation-induced emission enhancement characteristics of naphthalimide derivatives and their applications in cell imaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 3170.	6.7	124
5	Direct evidence of mitochondrial G-quadruplex DNA by using fluorescent anti-cancer agents. <i>Nucleic Acids Research</i> , 2015, 43, gkv1061.	6.5	88
6	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, 2810-2815.	3.2	87
7	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, 2846-2860.	6.5	87
8	Absorption and emission spectral shifts of rose bengal associated with DMPC liposomes. <i>Dyes and Pigments</i> , 2008, 79, 170-175.	2.0	87
9	Selective photodynamic therapy based on aggregation-induced emission enhancement of fluorescent organic nanoparticles. <i>Biomaterials</i> , 2012, 33, 897-906.	5.7	83
10	A Novel Carbazole Derivative, BMVC: a Potential Antitumor Agent and Fluorescence Marker of Cancer Cells. <i>Chemistry and Biodiversity</i> , 2004, 1, 1377-1384.	1.0	74
11	Special Reactive Oxygen Species Generation by a Highly Photostable BODIPY-Based Photosensitizer for Selective Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12935-12943.	4.0	54
12	Flexible Photonic Crystal Material for Multiple Anticounterfeiting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9858-9864.	4.0	54
13	Fluorescent probe for visualizing guanine-quadruplex DNA by fluorescence lifetime imaging microscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 101309.	1.4	52
14	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, 955-964.	1.5	51
15	A Carbazole Derivative Synthesis for Stabilizing the Quadruplex Structure. <i>Journal of the Chinese Chemical Society</i> , 2003, 50, 185-188.	0.8	44
16	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.	2.7	41
17	Fluorescent organic nanoparticle formation in lysosomes for cancer cell recognition. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2036.	1.5	40
18	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.	2.9	40

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19	A handheld device for potential point-of-care screening of cancer. <i>Analyst</i> , The, 2007, 132, 745.	1.7	39
20	Solvent effect on photophysical properties of a fluorescence probe: BMVC. <i>Journal of Luminescence</i> , 2006, 119-120, 84-90.	1.5	36
21	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.	1.6	36
22	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, 1475.	1.8	32
23	A fluorescent pH probe for acidic organelles in living cells. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7936-7943.	1.5	30
24	Effect of different electronic properties on 9-aryl-substituted BMVC derivatives for new fluorescence probes. <i>Journal of Luminescence</i> , 2007, 127, 41-47.	1.5	29
25	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.	2.9	29
26	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.	6.6	28
27	The synthesis and photodynamic properties of meso-substituted, cationic porphyrin derivatives in HeLa cells. <i>Dyes and Pigments</i> , 2010, 84, 140-147.	2.0	27
28	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, 1217-1228.	0.6	27
29	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.	2.9	27
30	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.	5.2	25
31	Multiple fluorescent behaviors of phenothiazine-based organic molecules. <i>Dyes and Pigments</i> , 2015, 112, 34-41.	2.0	24
32	Dual optical responses of phenothiazine derivatives: near-IR chromophore and water-soluble fluorescent organic nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 8653.	6.7	22
33	Development of double-generation gold nanoparticle chip-based dengue virus detection system combining fluorescence turn-on probes. <i>Biosensors and Bioelectronics</i> , 2016, 77, 90-98.	5.3	22
34	A Dual Anticancer Efficacy Molecule: A Selective Dark Cytotoxicity Photosensitizer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29883-29892.	4.0	16
35	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.	5.3	16
36	Preparation of fluoroionophores based on diamine-salicylaldehyde derivatives. <i>Dyes and Pigments</i> , 2012, 94, 371-379.	2.0	15

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37	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, 4475.	1.3	15
38	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.	4.4	14
39	Auto-adhesive transdermal drug delivery patches using beetle inspired micropillar structures. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5963.	2.9	12
40	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.	2.7	12
41	A Dual Selective Antitumor Agent and Fluorescence Probe: the Binary BMVCâ€“Porphyrin Photosensitizer. <i>ChemMedChem</i> , 2008, 3, 725-728.	1.6	11
42	Synthesis of a Photostable Nearâ€“Infraredâ€“Absorbing Photosensitizer for Selective Photodamage to Cancer Cells. <i>Chemistry - A European Journal</i> , 2014, 20, 9709-9715.	1.7	11
43	A 3D Plasmonic Crossed-Wire Nanostructure for Surface-Enhanced Raman Scattering and Plasmon-Enhanced Fluorescence Detection. <i>Molecules</i> , 2021, 26, 281.	1.7	11
44	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, 135-140.	2.0	10
45	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, 1964-1970.	1.0	10
46	Photo-Induced Antitumor Effect of 3,6-Bis(1-methyl-4-vinylpyridinium) Carbazole Diiodide. <i>BioMed Research International</i> , 2013, 2013, 1-10.	0.9	9
47	Thin-Film Transistor-Based Biosensors for Determining Stoichiometry of Biochemical Reactions. <i>PLoS ONE</i> , 2016, 11, e0169094.	1.1	9
48	Fabrication of a reticular poly(lactide-co-glycolide) cylindrical scaffold for the <i>in vitro</i> development of microvascular networks. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 163-171.	2.8	9
49	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.	4.0	9
50	Detection of G-Quadruplexes in Cells and Investigation of G-Quadruplex Structure of d(T2AC3)4 in K+ Solution by a Carbazole Derivative: BMVC. <i>Methods in Molecular Biology</i> , 2010, 608, 183-206.	0.4	7
51	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, 566-573.	5.3	7
52	Simple Method in Diagnosing Cancer Cells by a Novel Fluorescence Probe BMVC. <i>Journal of the Chinese Chemical Society</i> , 2005, 52, 1069-1072.	0.8	6
53	Thionin in a cyclodextrin nanocavity: Measuring local compressibilities by pressure tuning hole burning spectroscopy. <i>Chemical Physics Letters</i> , 2005, 413, 335-341.	1.2	6
54	Imiquimod Accelerated Antitumor Response by Targeting Lysosome Adaptation in Skin Cancer Cells. <i>Journal of Investigative Dermatology</i> , 2021, 141, 2219-2228.e8.	0.3	6

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55	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.	1.3	5
56	Dual-acting antibacterial porous chitosan film embedded with a photosensitizer. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 562-572.	2.8	5
57	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.	1.6	5
58	Direct Bilirubin Detection Using Surface-Enhanced Raman Spectroscopy. <i>IEEE Sensors Journal</i> , 2021, 21, 21458-21464.	2.4	4
59	A dual photoluminescence enhancement system: stabilization of a water soluble AIEE fluorogen using silver nanowire. <i>Faraday Discussions</i> , 2017, 196, 55-69.	1.6	3
60	Synthesis and Application in Cell Imaging of Acridone Derivatives. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8708.	1.3	3
61	Tumor tissues diagnosis with PIEE lipid droplet vesicles. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129269.	4.0	3
62	Ab Initio Studies of Work Function Changes of CO Adsorption on Clean and Pd-Doped ZnGa ₂ O ₄ (111) Surfaces for Gas Sensors. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5978.	1.3	3
63	Laser-induced hole filling by energy transfer between chromophores bound to DNA. <i>Journal of Luminescence</i> , 2004, 107, 213-219.	1.5	2
64	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.	2.8	2
65	High-pressure study of dye-DNA interaction. <i>Journal of Luminescence</i> , 2002, 98, 163-170.	1.5	1
66	Energy transfer dynamics of thionin investigated by broad non-resonant holes. <i>Journal of Luminescence</i> , 2002, 98, 257-263.	1.5	1
67	Can biologically inspired patches yield a new age of transdermal delivery?. <i>Therapeutic Delivery</i> , 2014, 5, 373-375.	1.2	1
68	New and efficient fluorescent and phosphorescent luminogens: general discussion. <i>Faraday Discussions</i> , 2017, 196, 191-218.	1.6	0
69	Organic small molecule for detection and photodegradation of mitochondrial DNA mutations. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5947-5955.	2.9	0
70	Fabrication of Double Emission Enhancement Fluorescent Nanoparticles with Combined PET and AIEE Effects. <i>Molecules</i> , 2020, 25, 5732.	1.7	0
71	Fluorescence of carbazole derivatives for screening of human cancer. , 2019, , .		0
72	Non-Enzymatic and Electrodeless Detection of Direct Bilirubin Using Metal Enhanced Fluorescence Effect. , 2020, , .		0