

Cheng-Chung Chang

List of Publications by Citations

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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 | Detection of quadruplex DNA structures in human telomeres by a fluorescent carbazole derivative. <i>Analytical Chemistry</i> , 2004 , 76, 4490-4 | 7.8 | 147 |
| 66 | 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 |
| 65 | Aggregation-induced emission enhancement characteristics of naphthalimide derivatives and their applications in cell imaging. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3170 | | 117 |
| 64 | A fluorescent carbazole derivative: high sensitivity for quadruplex DNA. <i>Analytical Chemistry</i> , 2003 , 75, 6177-83 | 7.8 | 116 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | Selective photodynamic therapy based on aggregation-induced emission enhancement of fluorescent organic nanoparticles. <i>Biomaterials</i> , 2012 , 33, 897-906 | 15.6 | 75 |
| 59 | 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 |
| 58 | Absorption and emission spectral shifts of rose bengal associated with DMPC liposomes. <i>Dyes and Pigments</i> , 2008 , 79, 170-175 | 4.6 | 65 |
| 57 | 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 |
| 56 | 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 |
| 55 | Fluorescent probe for visualizing guanine-quadruplex DNA by fluorescence lifetime imaging microscopy. <i>Journal of Biomedical Optics</i> , 2013 , 18, 101309 | 3.5 | 43 |
| 54 | A Carbazole Derivative Synthesis for Stabilizing the Quadruplex Structure. <i>Journal of the Chinese Chemical Society</i> , 2003 , 50, 185-188 | 1.5 | 40 |
| 53 | Fluorescent organic nanoparticle formation in lysosomes for cancer cell recognition. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 2036-9 | 3.9 | 38 |
| 52 | A handheld device for potential point-of-care screening of cancer. <i>Analyst, The</i> , 2007 , 132, 745-9 | 5 | 36 |
| 51 | Induction of senescence in cancer cells by the G-quadruplex stabilizer, BMVC ₄ , is independent of its telomerase inhibitory activity. <i>British Journal of Pharmacology</i> , 2012 , 167, 393-406 | 8.6 | 35 |

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| 50 | 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 |
| 49 | Solvent effect on photophysical properties of a fluorescence probe: BMVC. <i>Journal of Luminescence</i> , 2006 , 119-120, 84-90 | 3.8 | 34 |
| 48 | Flexible Photonic Crystal Material for Multiple Anticounterfeiting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9858-9864 | 9.5 | 30 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | Multiple fluorescent behaviors of phenothiazine-based organic molecules. <i>Dyes and Pigments</i> , 2015 , 112, 34-41 | 4.6 | 22 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | A fluorescent pH probe for acidic organelles in living cells. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7936-7943 | 3.9 | 15 |
| 35 | Preparation of fluoroionophores based on diamine-salicylaldehyde derivatives. <i>Dyes and Pigments</i> , 2012 , 94, 371-379 | 4.6 | 15 |
| 34 | 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 |
| 33 | 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 |

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| 32 | A Dual Anticancer Efficacy Molecule: A Selective Dark Cytotoxicity Photosensitizer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29883-29892 | 9.5 | 12 |
| 31 | 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 |
| 30 | A dual selective antitumor agent and fluorescence probe: the binary BMVC-porphyrin photosensitizer. <i>ChemMedChem</i> , 2008 , 3, 725-8 | 3.7 | 10 |
| 29 | 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 | 4.7 | 10 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | Photo-induced antitumor effect of 3,6-bis(1-methyl-4-vinylpyridinium) carbazole diiodide. <i>BioMed Research International</i> , 2013 , 2013, 930281 | 3 | 8 |
| 23 | 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 |
| 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 | 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 |
| 20 | Thin-Film Transistor-Based Biosensors for Determining Stoichiometry of Biochemical Reactions. <i>PLoS ONE</i> , 2016 , 11, e0169094 | 3.7 | 6 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |

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| 14 | Laser-induced hole filling by energy transfer between chromophores bound to DNA. <i>Journal of Luminescence</i> , 2004 , 107, 213-219 | 3.8 | 2 |
| 13 | Tumor tissues diagnosis with PIEE lipid droplet vesicles. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129269 | 8.5 | 2 |
| 12 | A 3D Plasmonic Crossed-Wire Nanostructure for Surface-Enhanced Raman Scattering and Plasmon-Enhanced Fluorescence Detection. <i>Molecules</i> , 2021 , 26, | 4.8 | 2 |
| 11 | 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 |
| 10 | High-pressure study of dye-DNA interaction. <i>Journal of Luminescence</i> , 2002 , 98, 163-170 | 3.8 | 1 |
| 9 | Energy transfer dynamics of thionin investigated by broad non-resonant holes. <i>Journal of Luminescence</i> , 2002 , 98, 257-263 | 3.8 | 1 |
| 8 | 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 |
| 7 | Synthesis and Application in Cell Imaging of Acridone Derivatives. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8708 | 2.6 | 1 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 | 5.7 | 0 |
| 3 | Organic small molecule for detection and photodegradation of mitochondrial DNA mutations. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5947-5955 | 7.3 | |
| 2 | Novel molecules targeting DNA G-quadruplexes: carbazole derivatives 2015 , 192-204 | | |
| 1 | Direct Bilirubin Detection Using Surface-Enhanced Raman Spectroscopy. <i>IEEE Sensors Journal</i> , 2021 , 1-1 | 4 | |