# Angel A Marti

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 104 papers | 7,408 citations | 87888 38 h-index | 54911 84 g-index |
| 108 all docs | 108 docs citations | 108 times ranked | 11150 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Graphene Quantum Dots Derived from Carbon Fibers. Nano Letters, 2012, 12, 844-849. | 9.1 | 2,041 |
| 2 | Coal as an abundant source of graphene quantum dots. Nature Communications, 2013, 4, 2943. | 12.8 | 686 |
| 3 | Exfoliation of a non-van der Waals material from iron ore hematite. Nature Nanotechnology, 2018, 13, 602-609. | 31.5 | 295 |
| 4 | Pyrene Excimer Signaling Molecular Beacons for Probing Nucleic Acids. Journal of the American Chemical Society, 2008, 130, 336-342. | 13.7 | 289 |
| 5 | Interrogating Amyloid Aggregates using Fluorescent Probes. Chemical Reviews, 2019, 119, 11819-11856. | 47.7 | 184 |
| 6 | Bandgap Engineering of Coal-Derived Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2015, 7, 7041-7048. | 8.0 | 182 |
| 7 | Fluorescent Hybridization Probes for Sensitive and Selective DNA and RNA Detection. Accounts of Chemical Research, 2007, 40, 402-409. | 15.6 | 174 |
| 8 | Defectâ€Engineeringâ€Enabled Highâ€Efficiency Allâ€Inorganic Perovskite Solar Cells. Advanced Materials, 2019, 31, e1903448. | 21.0 | 143 |
| 9 | Fluorinated h-BN as a magnetic semiconductor. Science Advances, 2017, 3, e1700842. | 10.3 | 121 |
| 10 | Carbon nanotube networks on different platforms. Carbon, 2014, 79, 1-18. | 10.3 | 115 |
| 11 | Sensing Amyloid-Î² Aggregation Using Luminescent Dipyridophenazine Ruthenium(II) Complexes. Journal of the American Chemical Society, 2011, 133, 11121-11123. | 13.7 | 113 |
| 12 | Pyrene binary probes for unambiguous detection of mRNA using time-resolved fluorescence spectroscopy. Nucleic Acids Research, 2006, 34, 3161-3168. | 14.5 | 101 |
| 13 | Direct Ion Exchange of Tris(2,2â€˜-bipyridine)ruthenium(II) into an Î±-Zirconium Phosphate Framework. Inorganic Chemistry, 2003, 42, 2830-2832. | 4.0 | 96 |
| 14 | Luminescent Polymer Composite Films Containing Coal-Derived Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2015, 7, 26063-26068. | 8.0 | 93 |
| 15 | Laser-Induced Conversion of Teflon into Fluorinated Nanodiamonds or Fluorinated Graphene. ACS Nano, 2018, 12, 1083-1088. | 14.6 | 91 |
| 16 | Optical Bifunctionality of Europium-Complexed Luminescent Graphene Nanosheets. Nano Letters, 2011, 11, 5227-5233. | 9.1 | 88 |
| 17 | Increased Solubility, Liquid-Crystalline Phase, and Selective Functionalization of Single-Walled Carbon Nanotube Polyelectrolyte Dispersions. ACS Nano, 2013, 7, 4503-4510. | 14.6 | 86 |
| 18 | A covalently linked phenanthridineâ€“ruthenium(ii) complex as a RNA probe. Chemical Communications, 2009, , 2640. | 4.1 | 85 |

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|---|---|---|---|
| 19 | Detection of Î±-Synuclein Amyloidogenic Aggregates in Vitro and in Cells using Light-Switching Dipyridophenazine Ruthenium(II) Complexes. Journal of the American Chemical Society, 2012, 134, 20776-20782. | 13.7 | 83 |
| 20 | A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite. Chemistry of Materials, 2018, 30, 5923-5931. | 6.7 | 82 |
| 21 | Macroscopic Nanotube Fibers Spun from Single-Walled Carbon Nanotube Polyelectrolytes. ACS Nano, 2014, 8, 9107-9112. | 14.6 | 81 |
| 22 | The Spin Chemistry and Magnetic Resonance of H<sub>2</sub>@C<sub>60</sub>. From the Pauli Principle to Trapping a Long Lived Nuclear Excited Spin State inside a Buckyball. Accounts of Chemical Research, 2010, 43, 335-345. | 15.6 | 74 |
| 23 | Unraveling the Photoluminescence Response of Light-Switching Ruthenium(II) Complexes Bound to Amyloid-Î². Journal of the American Chemical Society, 2013, 135, 10810-10816. | 13.7 | 73 |
| 24 | Molecular beacons with intrinsically fluorescent nucleotides. Nucleic Acids Research, 2006, 34, e50-e50. | 14.5 | 66 |
| 25 | Recent trends in molecular beacon design and applications. Analytical and Bioanalytical Chemistry, 2012, 402, 3091-3102. | 3.7 | 65 |
| 26 | Demonstration of a Chemical Transformation Inside a Fullerene. The Reversible Conversion of the Allotropes of H<sub>2</sub>@C<sub>60</sub>. Journal of the American Chemical Society, 2008, 130, 10506-10507. | 13.7 | 62 |
| 27 | Inorganicâ"Organic Hybrid Luminescent Binary Probe for DNA Detection Based on Spin-Forbidden Resonance Energy Transfer. Journal of the American Chemical Society, 2007, 129, 8680-8681. | 13.7 | 59 |
| 28 | Grb2 monomerâ€"dimer equilibrium determines normal versus oncogenic function. Nature Communications, 2015, 6, 7354. | 12.8 | 56 |
| 29 | Structural and Photophysical Characterisation offac-[Tricarbonyl(chloro)(5,6-epoxy-1,10-phenanthroline)rhenium(I)]. European Journal of Inorganic Chemistry, 2005, 2005, 118-124. | 2.0 | 50 |
| 30 | Phosphorylation State-Responsive Lanthanide Peptide Conjugates: A Luminescence Switch Based on Reversible Complex Reorganization. Organic Letters, 2006, 8, 2723-2726. | 4.6 | 48 |
| 31 | Probing a Bifunctional Luminomagnetic Nanophosphor for Biological Applications: a Photoluminescence and Timeâ€Resolved Spectroscopic Study. Small, 2011, 7, 1767-1773. | 10.0 | 48 |
| 32 | Deamidation of Asparagine to Aspartate Destabilizes Cu, Zn Superoxide Dismutase, Accelerates Fibrillization, and Mirrors ALS-Linked Mutations. Journal of the American Chemical Society, 2013, 135, 15897-15908. | 13.7 | 48 |
| 33 | Unimolecular Submersible Nanomachines. Synthesis, Actuation, and Monitoring. Nano Letters, 2015, 15, 8229-8239. | 9.1 | 47 |
| 34 | Monitoring the Formation of Amyloid Oligomers Using Photoluminescence Anisotropy. Journal of the American Chemical Society, 2019, 141, 15605-15610. | 13.7 | 47 |
| 35 | Highly Luminescentâ€"Paramagnetic Nanophosphor Probes for In Vitro Highâ€Contrast Imaging of Human Breast Cancer Cells. Small, 2012, 8, 3028-3034. | 10.0 | 46 |
| 36 | Self-Assembled Monolayers Based Upon a Zirconium Phosphate Platform. Chemistry of Materials, 2013, 25, 723-728. | 6.7 | 45 |

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|---|---|---|---|
| 37 | Arresting Amyloid with Coulombâ€™s Law: Acetylation of ALS-Linked SOD1 by Aspirin Impedes Aggregation. Biophysical Journal, 2015, 108, 1199-1212. | 0.5 | 44 |
| 38 | Unprecedented Dual Light-Switching Response of a Metal Dipyridophenazine Complex toward Amyloid-Î² Aggregation. Journal of the American Chemical Society, 2016, 138, 8686-8689. | 13.7 | 43 |
| 39 | Photophysical Characterization of the Interactions among Tris(2,2â€²-bipyridyl)ruthenium(II) Complexes Ion-Exchanged within Zirconium Phosphate. Inorganic Chemistry, 2010, 49, 7298-7303. | 4.0 | 38 |
| 40 | Surfactant-assisted individualization and dispersion of boron nitride nanotubes. Nanoscale Advances, 2019, 1, 1096-1103. | 4.6 | 38 |
| 41 | Scalable Purification of Boron Nitride Nanotubes via Wet Thermal Etching. Chemistry of Materials, 2019, 31, 1520-1527. | 6.7 | 38 |
| 42 | Spectroscopic investigation of a FRET molecular beacon containing two fluorophores for probing DNA/RNA sequences. Photochemical and Photobiological Sciences, 2006, 5, 493. | 2.9 | 36 |
| 43 | Carbon nanotubides: an alternative for dispersion, functionalization and composites fabrication. Nanoscale, 2015, 7, 15037-15045. | 5.6 | 36 |
| 44 | Can H<sub>2</sub> Inside C<sub>60</sub> Communicate with the Outside World?. Journal of the American Chemical Society, 2007, 129, 14554-14555. | 13.7 | 34 |
| 45 | Design and characterization of two-dye and three-dye binary fluorescent probes for mRNA detection. Tetrahedron, 2007, 63, 3591-3600. | 1.9 | 34 |
| 46 | Comparative NMR Properties of H<sub>2</sub> and HD in Toluene-d<sub>8</sub> and in H<sub>2</sub>/HD@C<sub>60</sub>. Journal of Physical Chemistry B, 2010, 114, 14689-14695. | 2.6 | 34 |
| 47 | Non-covalent ruthenium polypyridyl complexesâ€“carbon nanotubes composites: an alternative for functional dissolution of carbon nanotubes in solution. Chemical Communications, 2011, 47, 2246. | 4.1 | 34 |
| 48 | Magnetic Properties and Photocatalytic Applications of 2D Sheets of Nonlayered Manganese Telluride by Liquid Exfoliation. ACS Applied Nano Materials, 2018, 1, 6427-6434. | 5.0 | 33 |
| 49 | Latest Trends in Temperature Sensing by Molecular Probes. ChemPhotoChem, 2020, 4, 255-270. | 3.0 | 33 |
| 50 | Sensing Temperature in Vitro and in Cells Using a BODIPY Molecular Probe. Journal of Physical Chemistry B, 2019, 123, 7282-7289. | 2.6 | 32 |
| 51 | Time-resolved photoluminescence spectroscopy for the detection of cysteine and other thiol containing amino acids in complex strongly autofluorescent media. Chemical Communications, 2012, 48, 11760. | 4.1 | 30 |
| 52 | Facile Self-Assembly Route to Co3O4 Nanoparticles Confined into Single-Walled Carbon Nanotube Matrix for Highly Reversible Lithium Storage. Electrochimica Acta, 2017, 235, 613-622. | 5.2 | 30 |
| 53 | Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. Advanced Materials Interfaces, 2018, 5, 1700895. | 3.7 | 30 |
| 54 | Low-temperature titania-graphene quantum dots paste for flexible dye-sensitised solar cell applications. Electrochimica Acta, 2019, 305, 278-284. | 5.2 | 30 |

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| 55 | Bifunctional Luminomagnetic Rare-Earth Nanorods for High-Contrast Bioimaging Nanoprobes. Scientific Reports, 2016, 6, 32401. | 3.3 | 29 |
| 56 | Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) nanolayers. New Journal of Chemistry, 2020, 44, 2644-2651. | 2.8 | 29 |
| 57 | Intercalation of Re(phen)(CO)3Cl into zirconium phosphate: a water insoluble inorganic complex immobilized in a highly polar rigid matrix. Dalton Transactions, 2007, , 1713-1718. | 3.3 | 28 |
| 58 | Formation of a goldâ€“carbon dot nanocomposite with superior catalytic ability for the reduction of aromatic nitro groups in water. RSC Advances, 2014, 4, 25863-25866. | 3.6 | 28 |
| 59 | Photochemical Identification of Molecular Binding Sites on the Surface of Amyloid-Î² Fibrillar Aggregates. CheM, 2017, 3, 898-912. | 11.7 | 27 |
| 60 | Carbon-Based Nanoreporters Designed for Subsurface Hydrogen Sulfide Detection. ACS Applied Materials & Interfaces, 2014, 6, 7652-7658. | 8.0 | 26 |
| 61 | An Insight into the Phase Transformation of WS<sub>2</sub> upon Fluorination. Advanced Materials, 2018, 30, e1803366. | 21.0 | 26 |
| 62 | Metal complexes and time-resolved photoluminescence spectroscopy for sensing applications. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 307-308, 35-47. | 3.9 | 25 |
| 63 | Combinatorial fluorescence energy transfer molecular beacons for probing nucleic acid sequences. Photochemical and Photobiological Sciences, 2006, 5, 896. | 2.9 | 24 |
| 64 | Soft-Lithographic Patterning of Luminescent Carbon Nanodots Derived from Collagen Waste. ACS Applied Materials & Interfaces, 2018, 10, 36275-36283. | 8.0 | 24 |
| 65 | Optimizing the Sensitivity of Photoluminescent Probes Using Time-Resolved Spectroscopy: A Molecular Beacon Case Study. Analytical Chemistry, 2012, 84, 8075-8082. | 6.5 | 23 |
| 66 | Ascertaining Free Histidine from Mixtures with Histidine-Containing Proteins Using Time-Resolved Photoluminescence Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 10353-10358. | 2.5 | 23 |
| 67 | Films of Bare Single-Walled Carbon Nanotubes from Superacids with Tailored Electronic and Photoluminescence Properties. ACS Nano, 2012, 6, 5727-5734. | 14.6 | 22 |
| 68 | Kaplanâ€“Meier Meets Chemical Kinetics: Intrinsic Rate of SOD1 Amyloidogenesis Decreased by Subset of ALS Mutations and Cannot Fully Explain Age of Disease Onset. ACS Chemical Neuroscience, 2017, 8, 1378-1389. | 3.5 | 20 |
| 69 | Chemical Decoration of Boron Nitride Nanotubes Using the Billups-Birch Reaction: Toward Enhanced Thermostable Reinforced Polymer and Ceramic Nanocomposites. ACS Applied Nano Materials, 2018, 1, 2421-2429. | 5.0 | 20 |
| 70 | Understanding the Exfoliation and Dispersion of Hexagonal Boron Nitride Nanosheets by Surfactants: Implications for Antibacterial and Thermally Resistant Coatings. ACS Applied Nano Materials, 2021, 4, 142-151. | 5.0 | 20 |
| 71 | Luminogenic iridium azide complexes. Chemical Communications, 2015, 51, 15192-15195. | 4.1 | 19 |
| 72 | A novel electroluminescent device based on a reduced graphene oxide wrapped phosphor (ZnS:Cu,Al) and hexagonal-boron nitride for high-performance luminescence. Nanoscale, 2017, 9, 5002-5008. | 5.6 | 17 |

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|---|---|---|---|
| 73 | Synthesis of light-driven motorized nanocars for linear trajectories and their detailed NMR structural determination. Tetrahedron, 2017, 73, 4864-4873. | 1.9 | 17 |
| 74 | A Mechanistic Design Principle for Protein Tyrosine Kinase Sensors:â€‰ Application to a Validated Cancer Target. Organic Letters, 2008, 10, 301-304. | 4.6 | 16 |
| 75 | Facile Methodology for Monitoring Amyloid-Î² Fibrillization. ACS Chemical Neuroscience, 2012, 3, 896-899. | 3.5 | 16 |
| 76 | Liquid crystals of neat boron nitride nanotubes and their assembly into ordered macroscopic materials. Nature Communications, 2022, 13, . | 12.8 | 16 |
| 77 | Probing of Ni-Encapsulated Ferromagnetic Boron Nitride Nanotubes by Time-Resolved and Steady-State Photoluminescence Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 12803-12809. | 3.1 | 15 |
| 78 | Threeâ€Dimensional Solventâ€Vapor Map Generated by Supramolecular Metalâ€Complex Entrapment. Angewandte Chemie - International Edition, 2013, 52, 12615-12618. | 13.8 | 15 |
| 79 | Synthesis of a Lightâ€Driven Motorized Nanocar. Asian Journal of Organic Chemistry, 2015, 4, 1308-1314. | 2.7 | 15 |
| 80 | Ruthenium Red Colorimetric and Birefringent Staining of Amyloid-Î² Aggregates in Vitro and in Tg2576 Mice. ACS Chemical Neuroscience, 2013, 4, 379-384. | 3.5 | 13 |
| 81 | Fluorinated Boron Nitride Quantum Dots: A New 0D Material for Energy Conversion and Detection of Cellular Metabolism. Particle and Particle Systems Characterization, 2019, 36, 1800346. | 2.3 | 13 |
| 82 | Synthesis of a fluorescent BODIPY-tagged ROMP catalyst and initial polymerization-propelled diffusion studies. Tetrahedron, 2015, 71, 5965-5972. | 1.9 | 12 |
| 83 | Reflux pretreatment-mediated sonication: A new universal route to obtain 2D quantum dots. Materials Today, 2019, 22, 17-24. | 14.2 | 12 |
| 84 | Synthesis and Photostability of Unimolecular Submersible Nanomachines: Toward Single-Molecule Tracking in Solution. Organic Letters, 2016, 18, 2343-2346. | 4.6 | 11 |
| 85 | Single-walled carbon nanotubes shell decorating porous silicate materials: A general platform for studying the interaction of carbon nanotubes with photoactive molecules. Chemical Science, 2011, 2, 1682. | 7.4 | 10 |
| 86 | Tunable Alkylation of White Graphene (Hexagonal Boron Nitride) Using Reductive Conditions. Journal of Physical Chemistry C, 2019, 123, 19725-19733. | 3.1 | 10 |
| 87 | Fluorescent surfactants from common dyes â€“ Rhodamine B and Eosin Y. Pure and Applied Chemistry, 2020, 92, 265-274. | 1.9 | 10 |
| 88 | Nonradiative Deactivation of Singlet Oxygen (<sup>1</sup>O<sub>2</sub>) by Cubane and Its Derivatives. Organic Letters, 2008, 10, 5509-5512. | 4.6 | 9 |
| 89 | Adverse Effect of PTFE Stir Bars on the Covalent Functionalization of Carbon and Boron Nitride Nanotubes Using Billupsâ€“Birch Reduction Conditions. ACS Omega, 2019, 4, 5098-5106. | 3.5 | 9 |
| 90 | Carbon nanotubes dispersed in aqueous solution by ruthenium(ii) polypyridyl complexes. Nanoscale, 2016, 8, 13488-13497. | 5.6 | 8 |

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| 91 | FRETView: a computer program to simplify the process of obtaining fluorescence resonance energy transfer parameters. Photochemical and Photobiological Sciences, 2007, 6, 909. | 2.9 | 7 |
| 92 | Real-Time Visualization and Dynamics of Boron Nitride Nanotubes Undergoing Brownian Motion. Journal of Physical Chemistry B, 2020, 124, 4185-4192. | 2.6 | 7 |
| 93 | Design, Synthesis and Biological Evaluation of Ferrocenyl Thiazole and Thiazolo[5,4-d]thiazole Catechols as Inhibitors of 5-hLOX and as Antibacterials against Staphylococcus aureus. Structural Relationship and Computational Studies. Organometallics, 2020, 39, 2672-2681. | 2.3 | 7 |
| 94 | Increased solubility and fiber spinning of graphenide dispersions aided by crown-ethers. Chemical Communications, 2017, 53, 1498-1501. | 4.1 | 6 |
| 95 | Singular wavelength dependence on the sensitization of lanthanides by graphene quantum dots. Chemical Communications, 2018, 54, 4325-4328. | 4.1 | 5 |
| 96 | Luminescent hybrid biocomposite films derived from animal skin waste. Carbon Trends, 2021, 4, 100059. | 3.0 | 5 |
| 97 | Probing Amyloid Nanostructures Using Photoluminescent Metal Complexes. European Journal of Inorganic Chemistry, 2021, 2021, 4408-4424. | 2.0 | 4 |
| 98 | A life in crystallography. Dalton Transactions, 2020, 49, 3914-3916. | 3.3 | 3 |
| 99 | A simple graphene modified electrode for the determination of antimony(III) in edible plants and beverage. Food Chemistry, 2022, 367, 130676. | 8.2 | 3 |
| 100 | Leadâ€Free Perovskites: Leadâ€Free Double Perovskite Cs<sub>2</sub>SnX<sub>6</sub>: Facile Solution Synthesis and Excellent Stability (Small 39/2019). Small, 2019, 15, 1970211. | 10.0 | 2 |
| 101 | Bidentate Coordination of 2Apy in cisâ€[Ru(phen)2(2Apy)]2+ÂAiming at Photobiological Studies. European Journal of Inorganic Chemistry, 0, , . | 2.0 | 1 |
| 102 | Exploring the Photophysical Properties of UiO-67 MOF Doped with Rhenium Carbonyl Complexes. Journal of Photochemistry and Photobiology, 2022, , 100127. | 2.5 | 1 |
| 103 | Fluorescent Responsive Probes for Oligonucleotide Detection. ACS Symposium Series, 2010, , 269-282. | 0.5 | 0 |
| 104 | Retrospective on the 26th Inter-American Photochemical Society Winter Conference. ACS Energy Letters, 2017, 2, 780-781. | 17.4 | 0 |