

# Angel A Marti

## List of Publications by Citations

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103  
papers

6,054  
citations

36  
h-index

76  
g-index

108  
ext. papers

6,734  
ext. citations

9.7  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
103	Graphene quantum dots derived from carbon fibers. <i>Nano Letters</i> , <b>2012</b> , 12, 844-9	11.5	1779
102	Coal as an abundant source of graphene quantum dots. <i>Nature Communications</i> , <b>2013</b> , 4, 2943	17.4	556
101	Pyrene excimer signaling molecular beacons for probing nucleic acids. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 336-42	16.4	267
100	Exfoliation of a non-van der Waals material from iron ore hematite. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 602-609	28.7	179
99	Fluorescent hybridization probes for sensitive and selective DNA and RNA detection. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 402-9	24.3	167
98	Bandgap engineering of coal-derived graphene quantum dots. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7041-8	9.5	137
97	Carbon nanotube networks on different platforms. <i>Carbon</i> , <b>2014</b> , 79, 1-18	10.4	105
96	Sensing amyloid- $\beta$ aggregation using luminescent dipyridophenazine ruthenium(II) complexes. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11121-3	16.4	98
95	Interrogating Amyloid Aggregates using Fluorescent Probes. <i>Chemical Reviews</i> , <b>2019</b> , 119, 11819-11856	68.1	93
94	Pyrene binary probes for unambiguous detection of mRNA using time-resolved fluorescence spectroscopy. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 3161-8	20.1	93
93	Direct ion exchange of tris(2,2'-bipyridine)ruthenium(II) into an alpha-zirconium phosphate framework. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 2830-2	5.1	89
92	Fluorinated h-BN as a magnetic semiconductor. <i>Science Advances</i> , <b>2017</b> , 3, e1700842	14.3	87
91	A covalently linked phenanthridine-ruthenium(II) complex as a RNA probe. <i>Chemical Communications</i> , <b>2009</b> , 2640-2	5.8	83
90	Increased solubility, liquid-crystalline phase, and selective functionalization of single-walled carbon nanotube polyelectrolyte dispersions. <i>ACS Nano</i> , <b>2013</b> , 7, 4503-10	16.7	82
89	Optical bifunctionality of europium-complexed luminescent graphene nanosheets. <i>Nano Letters</i> , <b>2011</b> , 11, 5227-33	11.5	79
88	Defect-Engineering-Enabled High-Efficiency All-Inorganic Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903448	24	75
87	Detection of $\beta$ -synuclein amyloidogenic aggregates in vitro and in cells using light-switching dipyridophenazine ruthenium(II) complexes. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 20776-82	16.4	72

86	Laser-Induced Conversion of Teflon into Fluorinated Nanodiamonds or Fluorinated Graphene. <i>ACS Nano</i> , <b>2018</b> , 12, 1083-1088	16.7	69
85	Macroscopic nanotube fibers spun from single-walled carbon nanotube polyelectrolytes. <i>ACS Nano</i> , <b>2014</b> , 8, 9107-12	16.7	69
84	Luminescent Polymer Composite Films Containing Coal-Derived Graphene Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26063-8	9.5	66
83	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. <i>Accounts of Chemical Research</i> , <b>2010</b> , 43, 335-45	24.3	65
82	Molecular beacons with intrinsically fluorescent nucleotides. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, e50	20.1	63
81	Unraveling the photoluminescence response of light-switching ruthenium(II) complexes bound to amyloid- $\beta$ . <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10810-6	16.4	62
80	Recent trends in molecular beacon design and applications. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 3091-102	4.4	59
79	Inorganic-organic hybrid luminescent binary probe for DNA detection based on spin-forbidden resonance energy transfer. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 8680-1	16.4	58
78	Demonstration of a chemical transformation inside a fullerene. The reversible conversion of the allotropes of H <sub>2</sub> @C <sub>60</sub> . <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10506-7	16.4	57
77	Structural and Photophysical Characterisation of fac-[Tricarbonyl(chloro)(5,6-epoxy-1,10-phenanthroline)rhenium(III)]. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 118-124	2.3	50
76	Probing a bifunctional luminomagnetic nanophosphor for biological applications: a photoluminescence and time-resolved spectroscopic study. <i>Small</i> , <b>2011</b> , 7, 1767-73	11	47
75	Phosphorylation state-responsive lanthanide peptide conjugates: a luminescence switch based on reversible complex reorganization. <i>Organic Letters</i> , <b>2006</b> , 8, 2723-6	6.2	46
74	A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5923-5931	9.6	45
73	Highly luminescent-paramagnetic nanophosphor probes for in vitro high-contrast imaging of human breast cancer cells. <i>Small</i> , <b>2012</b> , 8, 3028-34	11	43
72	Deamidation of asparagine to aspartate destabilizes Cu, Zn superoxide dismutase, accelerates fibrillization, and mirrors ALS-linked mutations. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15897-908	16.4	42
71	Self-Assembled Monolayers Based Upon a Zirconium Phosphate Platform. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 723-728	9.6	39
70	Unimolecular Submersible Nanomachines. Synthesis, Actuation, and Monitoring. <i>Nano Letters</i> , <b>2015</b> , 15, 8229-39	11.5	38
69	Arresting amyloid with coulomb's law: acetylation of ALS-linked SOD1 by aspirin impedes aggregation. <i>Biophysical Journal</i> , <b>2015</b> , 108, 1199-212	2.9	36

68	Photophysical characterization of the interactions among tris(2,2'Sbipyridyl)ruthenium(II) complexes ion-exchanged within zirconium phosphate. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7298-303	5.1	36
67	Spectroscopic investigation of a FRET molecular beacon containing two fluorophores for probing DNA/RNA sequences. <i>Photochemical and Photobiological Sciences</i> , <b>2006</b> , 5, 493-8	4.2	36
66	Non-covalent ruthenium polypyridyl complexes-carbon nanotubes composites: an alternative for functional dissolution of carbon nanotubes in solution. <i>Chemical Communications</i> , <b>2011</b> , 47, 2246-8	5.8	34
65	Can H <sub>2</sub> inside C <sub>60</sub> communicate with the outside world?. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14554-5	16.4	34
64	Carbon nanotubides: an alternative for dispersion, functionalization and composites fabrication. <i>Nanoscale</i> , <b>2015</b> , 7, 15037-45	7.7	33
63	Unprecedented Dual Light-Switching Response of a Metal Dipyridophenazine Complex toward Amyloid- $\beta$ Aggregation. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8686-9	16.4	33
62	Design and characterization of two-dye and three-dye binary fluorescent probes for mRNA detection. <i>Tetrahedron</i> , <b>2007</b> , 63, 3591-3600	2.4	32
61	Monitoring the Formation of Amyloid Oligomers Using Photoluminescence Anisotropy. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15605-15610	16.4	30
60	Grb2 monomer-dimer equilibrium determines normal versus oncogenic function. <i>Nature Communications</i> , <b>2015</b> , 6, 7354	17.4	29
59	Intercalation of Re(phen)(CO) <sub>3</sub> Cl into zirconium phosphate: a water insoluble inorganic complex immobilized in a highly polar rigid matrix. <i>Dalton Transactions</i> , <b>2007</b> , 1713-8	4.3	28
58	Facile Self-Assembly Route to Co <sub>3</sub> O <sub>4</sub> Nanoparticles Confined into Single-Walled Carbon Nanotube Matrix for Highly Reversible Lithium Storage. <i>Electrochimica Acta</i> , <b>2017</b> , 235, 613-622	6.7	27
57	Bifunctional Luminomagnetic Rare-Earth Nanorods for High-Contrast Bioimaging Nanoprobes. <i>Scientific Reports</i> , <b>2016</b> , 6, 32401	4.9	27
56	Time-resolved photoluminescence spectroscopy for the detection of cysteine and other thiol containing amino acids in complex strongly autofluorescent media. <i>Chemical Communications</i> , <b>2012</b> , 48, 11760-2	5.8	27
55	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> . <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 14689-95	3.4	27
54	Surfactant-assisted individualization and dispersion of boron nitride nanotubes. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1096-1103	5.1	24
53	Low-temperature titania-graphene quantum dots paste for flexible dye-sensitised solar cell applications. <i>Electrochimica Acta</i> , <b>2019</b> , 305, 278-284	6.7	24
52	Carbon-based nanoreporters designed for subsurface hydrogen sulfide detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7652-8	9.5	23
51	Combinatorial fluorescence energy transfer molecular beacons for probing nucleic acid sequences. <i>Photochemical and Photobiological Sciences</i> , <b>2006</b> , 5, 896-902	4.2	23

50	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1700895	4.6	22
49	Ascertaining free histidine from mixtures with histidine-containing proteins using time-resolved photoluminescence spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 10353-8	2.8	22
48	Photochemical Identification of Molecular Binding Sites on the Surface of Amyloid- $\beta$ Fibrillar Aggregates. <i>Chem</i> , <b>2017</b> , 3, 898-912	16.2	21
47	Scalable Purification of Boron Nitride Nanotubes via Wet Thermal Etching. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1520-1527	9.6	21
46	Optimizing the sensitivity of photoluminescent probes using time-resolved spectroscopy: a molecular beacon case study. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8075-82	7.8	21
45	Films of bare single-walled carbon nanotubes from superacids with tailored electronic and photoluminescence properties. <i>ACS Nano</i> , <b>2012</b> , 6, 5727-34	16.7	21
44	Metal complexes and time-resolved photoluminescence spectroscopy for sensing applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 307-308, 35-47	4.7	20
43	Formation of a gold-carbon dot nanocomposite with superior catalytic ability for the reduction of aromatic nitro groups in water. <i>RSC Advances</i> , <b>2014</b> , 4, 25863-25866	3.7	20
42	Magnetic Properties and Photocatalytic Applications of 2D Sheets of Nonlayered Manganese Telluride by Liquid Exfoliation. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6427-6434	5.6	19
41	Sensing Temperature in Vitro and in Cells Using a BODIPY Molecular Probe. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 7282-7289	3.4	18
40	Kaplan-Meier Meets Chemical Kinetics: Intrinsic Rate of SOD1 Amyloidogenesis Decreased by Subset of ALS Mutations and Cannot Fully Explain Age of Disease Onset. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 1378-1389	5.7	17
39	Luminogenic iridium azide complexes. <i>Chemical Communications</i> , <b>2015</b> , 51, 15192-5	5.8	17
38	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) nanolayers. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 2644-2651	3.6	17
37	A novel electroluminescent device based on a reduced graphene oxide wrapped phosphor (ZnS:Cu,Al) and hexagonal-boron nitride for high-performance luminescence. <i>Nanoscale</i> , <b>2017</b> , 9, 5002-5008	7.7	16
36	A mechanistic design principle for protein tyrosine kinase sensors: application to a validated cancer target. <i>Organic Letters</i> , <b>2008</b> , 10, 301-4	6.2	16
35	Three-dimensional solvent-vapor map generated by supramolecular metal-complex entrapment. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12615-8	16.4	15
34	An Insight into the Phase Transformation of WS upon Fluorination. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803366	3.6	15
33	Synthesis of a Light-Driven Motorized Nanocar. <i>Asian Journal of Organic Chemistry</i> , <b>2015</b> , 4, 1308-1314	3	14

32	Latest Trends in Temperature Sensing by Molecular Probes. <i>ChemPhotoChem</i> , <b>2020</b> , 4, 255-270	3.3	14
31	Chemical Decoration of Boron Nitride Nanotubes Using the Billups-Birch Reaction: Toward Enhanced Thermostable Reinforced Polymer and Ceramic Nanocomposites. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2421-2429	5.6	13
30	Probing of Ni-Encapsulated Ferromagnetic Boron Nitride Nanotubes by Time-Resolved and Steady-State Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 12803-12809	3.8	12
29	Synthesis of light-driven motorized nanocars for linear trajectories and their detailed NMR structural determination. <i>Tetrahedron</i> , <b>2017</b> , 73, 4864-4873	2.4	11
28	Ruthenium red colorimetric and birefringent staining of amyloid- $\beta$ aggregates in vitro and in Tg2576 mice. <i>ACS Chemical Neuroscience</i> , <b>2013</b> , 4, 379-84	5.7	11
27	Synthesis and Photostability of Unimolecular Submersible Nanomachines: Toward Single-Molecule Tracking in Solution. <i>Organic Letters</i> , <b>2016</b> , 18, 2343-6	6.2	11
26	Single-walled carbon nanotubes shell decorating porous silicate materials: A general platform for studying the interaction of carbon nanotubes with photoactive molecules. <i>Chemical Science</i> , <b>2011</b> , 2, 1682	9.4	10
25	Nonradiative deactivation of singlet oxygen ( $(^1O_2)$ ) by cubane and its derivatives. <i>Organic Letters</i> , <b>2008</b> , 10, 5509-12	6.2	9
24	Synthesis of a fluorescent BODIPY-tagged ROMP catalyst and initial polymerization-propelled diffusion studies. <i>Tetrahedron</i> , <b>2015</b> , 71, 5965-5972	2.4	8
23	Carbon nanotubes dispersed in aqueous solution by ruthenium(ii) polypyridyl complexes. <i>Nanoscale</i> , <b>2016</b> , 8, 13488-97	7.7	8
22	Facile methodology for monitoring amyloid- $\beta$ fibrillization. <i>ACS Chemical Neuroscience</i> , <b>2012</b> , 3, 896-9	5.7	8
21	Reflux pretreatment-mediated sonication: A new universal route to obtain 2D quantum dots. <i>Materials Today</i> , <b>2019</b> , 22, 17-24	21.8	7
20	FRETView: a computer program to simplify the process of obtaining fluorescence resonance energy transfer parameters. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 909-11	4.2	7
19	Fluorinated Boron Nitride Quantum Dots: A New 0D Material for Energy Conversion and Detection of Cellular Metabolism. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1800346	3.1	6
18	Soft-Lithographic Patterning of Luminescent Carbon Nanodots Derived from Collagen Waste. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 36275-36283	9.5	6
17	Understanding the Exfoliation and Dispersion of Hexagonal Boron Nitride Nanosheets by Surfactants: Implications for Antibacterial and Thermally Resistant Coatings. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 142-151	5.6	6
16	Increased solubility and fiber spinning of graphenide dispersions aided by crown-ethers. <i>Chemical Communications</i> , <b>2017</b> , 53, 1498-1501	5.8	5
15	Adverse Effect of PTFE Stir Bars on the Covalent Functionalization of Carbon and Boron Nitride Nanotubes Using Billups-Birch Reduction Conditions. <i>ACS Omega</i> , <b>2019</b> , 4, 5098-5106	3.9	5

14	Singular wavelength dependence on the sensitization of lanthanides by graphene quantum dots. <i>Chemical Communications</i> , <b>2018</b> , 54, 4325-4328	5.8	5
13	Tunable Alkylation of White Graphene (Hexagonal Boron Nitride) Using Reductive Conditions. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 19725-19733	3.8	5
12	Real-Time Visualization and Dynamics of Boron Nitride Nanotubes Undergoing Brownian Motion. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 4185-4192	3.4	4
11	Three-Dimensional Solvent-Vapor Map Generated by Supramolecular Metal-Complex Entrapment. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 12847-12850	3.6	4
10	Design, Synthesis and Biological Evaluation of Ferrocenyl Thiazole and Thiazolo[5,4-d]thiazole Catechols as Inhibitors of 5-hLOX and as Antibacterials against <i>Staphylococcus aureus</i> . Structural Relationship and Computational Studies. <i>Organometallics</i> , <b>2020</b> , 39, 2672-2681	3.8	3
9	Luminescent hybrid biocomposite films derived from animal skin waste. <i>Carbon Trends</i> , <b>2021</b> , 4, 100059	0	3
8	Liquid crystals of neat boron nitride nanotubes and their assembly into ordered macroscopic materials. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	3
7	Lead-Free Perovskites: Lead-Free Double Perovskite Cs <sub>2</sub> SnX <sub>6</sub> : Facile Solution Synthesis and Excellent Stability (Small 39/2019). <i>Small</i> , <b>2019</b> , 15, 1970211	11	2
6	Fluorescent surfactants from common dyes [Rhodamine B and Eosin Y. <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 265-274	2.1	2
5	Probing Amyloid Nanostructures using Photoluminescent Metal Complexes. <i>European Journal of Inorganic Chemistry</i> ,	2.3	1
4	A simple graphene modified electrode for the determination of antimony(III) in edible plants and beverage. <i>Food Chemistry</i> , <b>2022</b> , 367, 130676	8.5	1
3	Exploring the Photophysical Properties of UiO-67 MOF Doped with Rhenium Carbonyl Complexes. <i>Journal of Photochemistry and Photobiology</i> , <b>2022</b> , 100127	0.8	1
2	Fluorescent Responsive Probes for Oligonucleotide Detection. <i>ACS Symposium Series</i> , <b>2010</b> , 269-282	0.4	
1	Retrospective on the 26th Inter-American Photochemical Society Winter Conference. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 780-781	20.1	