K George Thomas

List of Publications by Year in Descending Order

85 papers	7,190 citations	39 h-index	84 g-index
92 ext. papers	8,161 ext. citations	7.5 avg, IF	5.93 L-index

#	Paper	IF	Citations
85	Manipulating the Self-Assembly of Phenyleneethynylenes under Vibrational Strong Coupling.. *Journal of Physical Chemistry Letters*, **2022**, 1209-1214	6.4	1
84	Core-Size-Dependent Trapping and Detrapping Dynamics in CdSe/CdS/ZnS Quantum Dots. *Journal of Physical Chemistry C*, **2021**, 125, 25706-25716	3.8	2
83	Core–Shell Plasmonic Nanostructures on Au Films as SERS Substrates: Thickness of Film and Quality Factor of Nanoparticle Matter. *Journal of Physical Chemistry C*, **2021**, 125, 16024-16032	3.8	1
82	Emergent chiroptical properties in supramolecular and plasmonic assemblies. *Chemical Society Reviews*, **2021**, 50, 11208-11226	58.5	3
81	Mesoporous Silica-Capped Silver Nanoparticles for Sieving and Surface-Enhanced Raman Scattering-Based Sensing. *ACS Applied Nano Materials*, **2020**, 3, 6376-6384	5.6	13
80	Supramolecular chirality: a caveat in assigning the handedness of chiral aggregates. *Chemical Communications*, **2020**, 56, 8281-8284	5.8	21
79	Finding the Needle in a Haystack: Capturing Veiled Plexcitonic Coupling through Differential Spectroscopy. *Journal of Physical Chemistry C*, **2020**, 124, 26387-26395	3.8	2
78	Gold nanoparticle on semiconductor quantum dot: Do surface ligands influence Fermi level equilibration. *Journal of Chemical Physics*, **2020**, 152, 044710	3.9	11
77	Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117	16.7	1000
76	Chiral Plasmons: Au Nanoparticle Assemblies on Thermoresponsive Organic Templates. *ACS Nano*, **2019**, 13, 4392-4401	16.7	19
75	Coupled Plasmon Resonances and Gap Modes in Laterally Assembled Gold Nanorod Arrays. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1607-1617	3.1	4
74	Coupling of Elementary Electronic Excitations: Drawing Parallels Between Excitons and Plasmons. *Journal of Physical Chemistry Letters*, **2018**, 9, 919-932	6.4	16
73	Plexcitons: The Role of Oscillator Strengths and Spectral Widths in Determining Strong Coupling. *ACS Nano*, **2018**, 12, 402-415	16.7	52
72	InP Quantum Dots: Probing the Active Domain of Tau Peptide Using Energy Transfer. *Journal of Physical Chemistry C*, **2018**, 122, 14168-14176	3.8	8
71	Emergence of Chiroptical Properties in Molecular Assemblies of Phenyleneethynylenes: The Role of Quasi-degenerate Excitations. *Journal of Physical Chemistry Letters*, **2018**, 9, 4584-4590	6.4	5
70	Blinking Suppression in Highly Excited CdSe/ZnS Quantum Dots by Electron Transfer under Large Positive Gibbs (Free) Energy Change. *ACS Nano*, **2018**, 12, 9060-9069	16.7	29
69	Probing the bilayer-monolayer switching of capping agents on Au nanorods and its interaction with guest molecules(^{S }). *Journal of Chemical Sciences*, **2018**, 130, 1	1.8	0

68	How Trap States Affect Charge Carrier Dynamics of CdSe and InP Quantum Dots: Visualization through Complexation with Viologen. *ACS Energy Letters*, **2018**, 3, 2368-2375	20.1	26
67	Tribute to Prashant V. Kamat. *Journal of Physical Chemistry C*, **2018**, 122, 13205-13206	3.8	
66	Cost-Effective Plasmonic Platforms: Glass Capillaries Decorated with Ag@SiO Nanoparticles on Inner Walls as SERS Substrates. *ACS Applied Materials & Interfaces*, **2017**, 9, 19470-19477	9.5	27
65	Enantioselective Light Harvesting with Perylenediimide Guests on Self-Assembled Chiral Naphthalenediimide Nanofibers. *Angewandte Chemie - International Edition*, **2017**, 56, 15053-15057	16.4	79
64	Enantioselective Light Harvesting with Perylenediimide Guests on Self-Assembled Chiral Naphthalenediimide Nanofibers. *Angewandte Chemie*, **2017**, 129, 15249-15253	3.6	27
63	CdSe-CdTe Heterojunction Nanorods: Role of CdTe Segment in Modulating the Charge Transfer Processes. *ACS Omega*, **2017**, 2, 5150-5158	3.9	12
62	Descriptor-Based Rational Design of Two-Dimensional Self-Assembled Nanoarchitectures Stabilized by Hydrogen Bonds. *Chemistry of Materials*, **2017**, 29, 7170-7182	9.6	12
61	R□ktitelbild: Enantioselective Light Harvesting with Perylenediimide Guests on Self-Assembled Chiral Naphthalenediimide Nanofibers (Angew. Chem. 47/2017). *Angewandte Chemie*, **2017**, 129, 15364-15364	3.6	
60	Nanoscale chirality in metal and semiconductor nanoparticles. *Chemical Communications*, **2016**, 52, 12555-12569	5.8	93
59	Two-Dimensional Growth Rate Control of l-Phenylalanine Crystal by Laser Trapping in Unsaturated Aqueous Solution. *Crystal Growth and Design*, **2016**, 16, 953-960	3.5	27
58	Au nanorod quartets and Raman signal enhancement: towards the design of plasmonic platforms. *Nanoscale*, **2014**, 6, 10454-9	7.7	20
57	InP Quantum Dots: An Environmentally Friendly Material with Resonance Energy Transfer Requisites. *Journal of Physical Chemistry C*, **2014**, 118, 3838-3845	3.8	58
56	Luminescence Properties of CdSe Quantum Dots: Role of Crystal Structure and Surface Composition. *Journal of Physical Chemistry Letters*, **2013**, 4, 2774-2779	6.4	84
55	Surface plasmon coupling in end-to-end linked gold nanorod dimers and trimers. *Physical Chemistry Chemical Physics*, **2013**, 15, 4258-64	3.6	61
54	CuInS2-Sensitized Quantum Dot Solar Cell. Electrophoretic Deposition, Excited-State Dynamics, and Photovoltaic Performance. *Journal of Physical Chemistry Letters*, **2013**, 4, 722-9	6.4	199
53	Role of hydrogen bonding on the self-organization of phenyleneethynylenes on surfaces. *Langmuir*, **2013**, 29, 2242-9	4	13
52	Ag@SiO2 Core-Shell Nanostructures: Distance-Dependent Plasmon Coupling and SERS Investigation. *Journal of Physical Chemistry Letters*, **2012**, 3, 1459-64	6.4	147
51	Gold Nanoparticle-Functionalized Carbon Nanotubes for Light-Induced Electron Transfer Process. *Journal of Physical Chemistry Letters*, **2011**, 2, 775-781	6.4	17

50	Synthesis of CdS nanorods and nanospheres: shape tuning by the controlled addition of a sulfide precursor at room temperature. *CrystEngComm*, **2011**, 13, 2340	3.3	39
49	Surface-Enhanced Raman Spectroscopy: Investigations at the Nanorod Edges and Dimer Junctions. *Journal of Physical Chemistry Letters*, **2011**, 2, 610-615	6.4	78
48	Surface plasmon coupled circular dichroism of Au nanoparticles on peptide nanotubes. *Journal of the American Chemical Society*, **2010**, 132, 2502-3	16.4	152
47	Hydrazine-Induced Room-Temperature Transformation of CdTe Nanoparticles to Nanowires. *Journal of Physical Chemistry Letters*, **2010**, 1, 2094-2098	6.4	32
46	Directional hydrogen bonding controlled 2D self-organization of phenyleneethynylenes: from linear assembly to rectangular network. *Chemical Communications*, **2010**, 46, 3457-9	5.8	21
45	Tunable photophysical properties of phenyleneethynylene based bipyridine ligands. *Photochemical and Photobiological Sciences*, **2009**, 8, 1432-40	4.2	15
44	Functional Control on the 2D Self-Organization of Phenyleneethynylenes *Journal of Physical Chemistry C*, **2009**, 113, 11836-11843	3.8	13
43	Excited-state and photoelectrochemical behavior of pyrene-linked phenyleneethynylene oligomer. *Journal of Physical Chemistry B*, **2008**, 112, 14539-47	3.4	17
42	Plasmon Coupling in Dimers of Au Nanorods. *Advanced Materials*, **2008**, 20, 4300-4305	24	152
41	Preferential end functionalization of Au nanorods through electrostatic interactions. *Journal of the American Chemical Society*, **2007**, 129, 6712-3	16.4	40
40	Ruthenium(II) trisbipyridine functionalized gold nanorods. Morphological changes and excited-state interactions. *Journal of Physical Chemistry B*, **2007**, 111, 6839-44	3.4	53
39	Self-Organization of Phenyleneethynylene into Wire-Like Molecular Materials on Surfaces. *Journal of Physical Chemistry C*, **2007**, 111, 14933-14936	3.8	22
38	An Approach for Optimizing the Shell Thickness of Core Shell Quantum Dots Using Photoinduced Charge Transfer. *Journal of Physical Chemistry C*, **2007**, 111, 10146-10149	3.8	44
37	Design and synthesis of squaraine based near infrared fluorescent probes. *Tetrahedron*, **2007**, 63, 1617-1623	2.4	32
36	In Situ Synthesis of Metal Nanoparticles and Selective Naked-Eye Detection of Lead Ions from Aqueous Media. *Journal of Physical Chemistry C*, **2007**, 111, 12839-12847	3.8	322
35	Photophysical and theoretical investigations of oligo(p-phenyleneethynylene)s: effect of alkoxy substitution and alkyne-aryl bond rotations. *Journal of Physical Chemistry A*, **2006**, 110, 4329-37	2.8	135
34	Gold nanorods to nanochains: mechanistic investigations on their longitudinal assembly using alpha,omega-alkanedithiols and interplasmon coupling. *Journal of Physical Chemistry B*, **2006**, 110, 150-7	3.4	179
33	Photochemistry of ruthenium trisbipyridine functionalized on gold nanoparticles. *Journal of Physical Chemistry B*, **2006**, 110, 20737-41	3.4	44

32	Singlet and triplet excited-state interactions and photochemical reactivity of phenyleneethynylene oligomers. *Journal of Physical Chemistry A*, **2006**, 110, 5642-9	2.8	52
31	A squaraine-based chemosensor for Hg2+ and Pb2+. *Tetrahedron*, **2006**, 62, 605-610	2.4	76
30	Selective detection of cysteine and glutathione using gold nanorods. *Journal of the American Chemical Society*, **2005**, 127, 6516-7	16.4	539
29	Self-assembled linear bundles of single wall carbon nanotubes and their alignment and deposition as a film in a dc field. *Journal of the American Chemical Society*, **2004**, 126, 10757-62	16.4	216
28	Investigations on Nanoparticle□Chromophore and Interchromophore Interactions in Pyrene-Capped Gold Nanoparticles. *Journal of Physical Chemistry B*, **2004**, 108, 13265-13272	3.4	63
27	Uniaxial Plasmon Coupling through Longitudinal Self-Assembly of Gold Nanorods. *Journal of Physical Chemistry B*, **2004**, 108, 13066-13068	3.4	385
26	Effect of viscosity on the singlet-excited state dynamics of some hemicyanine dyes. *Research on Chemical Intermediates*, **2003**, 29, 293-305	2.8	10
25	Chromophore-functionalized gold nanoparticles. *Accounts of Chemical Research*, **2003**, 36, 888-98	24.3	608
24	Dynamics of photoinduced electron-transfer processes in fullerene-based dyads: effects of varying the donor strength. *ChemPhysChem*, **2003**, 4, 1299-307	3.2	41
23	Light-induced modulation of self-assembly on spiropyran-capped gold nanoparticles: a potential system for the controlled release of amino acid derivatives. *Journal of the American Chemical Society*, **2003**, 125, 7174-5	16.4	167
22	Clusters of Bis- and Tris-Fullerenes. *Langmuir*, **2002**, 18, 1831-1839	4	30
21	Photochemistry of chromophore-functionalized gold nanoparticles. *Pure and Applied Chemistry*, **2002**, 74, 1731-1738	2.1	38
20	Fullerene-Functionalized Gold Nanoparticles. A Self-Assembled Photoactive Antenna-Metal Nanocore Assembly. *Nano Letters*, **2002**, 2, 29-35	11.5	167
19	Photoinduced Charge Separation in a Fluorophore□Gold Nanoassembly. *Journal of Physical Chemistry B*, **2002**, 106, 18-21	3.4	175
18	Surface Binding Properties of Tetraoctylammonium Bromide-Capped Gold Nanoparticles. *Langmuir*, **2002**, 18, 3722-3727	4	155
17	Photoinduced Electron Transfer between 1,2,5-Triphenylpyrrolidinofullerene Cluster Aggregates and Electron Donors. *Langmuir*, **2001**, 17, 2930-2936	4	35
16	Conformational switching and exciton interactions in hemicyanine-based bichromophores. *Journal of the American Chemical Society*, **2001**, 123, 7859-65	16.4	62
15	Making Gold Nanoparticles Glow: Enhanced Emission from a Surface-Bound Fluoroprobe. *Journal of the American Chemical Society*, **2000**, 122, 2655-2656	16.4	209

14	Electrodeposition of C60 Cluster Aggregates on Nanostructured SnO2 Films for Enhanced Photocurrent Generation. *Journal of Physical Chemistry B*, **2000**, 104, 4014-4017	3.4	131
13	Orientation-Dependent Electron Transfer Processes in Fullerene–Aniline Dyads. *Journal of Physical Chemistry A*, **1999**, 103, 10755-10763	2.8	37
12	Photoinduced Charge Separation and Stabilization in Clusters of a Fullerene–Aniline Dyad. *Journal of Physical Chemistry B*, **1999**, 103, 8864-8869	3.4	86
11	Excited-State Interactions in Pyrrolidinofullerenes. *Journal of Physical Chemistry A*, **1998**, 102, 5341-5348	2.8	76
10	Picosecond dynamics of an IR sensitive squaraine dye. Role of singlet and triplet excited states in the photosensitization of TiO2 nanoclusters. *Journal of Chemical Physics*, **1997**, 106, 6404-6411	3.9	29
9	Photochemistry of squaraine dyes. Part 10.—Excited-state properties and photosensitization behaviour of an IR sensitive cationic squaraine dye. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 4913-4916		14
8	Electrochemical and Photoelectrochemical Properties of Monoaza-15-crown Ether Linked Cyanine Dyes: Photosensitization of Nanocrystalline SnO2 Films. *Langmuir*, **1995**, 11, 1777-1783	4	29
7	Photophysical and Photoelectrochemical Behavior of Poly[styrene-co-3-(acrylamido)-6-aminoacridine]. *Macromolecules*, **1995**, 28, 4249-4254	5.5	11
6	Crown ether derivatives of squaraine: new near-infrared-absorbing, redox-active fluoroionophores for alkali metal recognition. *Analytical Proceedings*, **1995**, 32, 213		11
5	Photocatalyzed multiple additions of amines to .alpha.,.beta.-unsaturated esters and nitriles. *Journal of Organic Chemistry*, **1994**, 59, 628-634	4.2	35
4	Excited-state properties and photosensitization behaviour of bis(2,4-dihydroxyphenyl)squaraine. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 2397		32
3	Photochemistry of squaraine dyes. 5. Aggregation of bis(2,4-dihydroxyphenyl)squaraine and bis(2,4,6-trihydroxyphenyl)squaraine and their photodissociation in acetonitrile solutions. *The Journal of Physical Chemistry*, **1993**, 97, 13620-13624		55
2	Fluorescence enhancement of bis(2,4,6-trihydroxyphenyl)squaraine anion by 2 : 1 host–guest complexation with β-cyclodextrin. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 3419-3422		44
1	Ultrafast photochemical events associated with the photosensitization properties of a squaraine dye. *Chemical Physics Letters*, **1991**, 178, 75-79	2.5	89