

K V Lakshmi

List of Publications by Year in descending order

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68
papers

4,048
citations

218381

26
h-index

114278

63
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69
all docs

69
docs citations

69
times ranked

4450
citing authors

#	ARTICLE	IF	CITATIONS
1	Heteronuclear decoupling in rotating solids. <i>Journal of Chemical Physics</i> , 1995, 103, 6951-6958.	1.2	2,064
2	Dicopper Cu(I)Cu(I) and Cu(I)Cu(II) Complexes in Copper-Catalyzed Azide-Alkyne Cycloaddition. <i>Journal of the American Chemical Society</i> , 2017, 139, 5378-5386.	6.6	108
3	Role of Hydrogen in Defining the n-Type Character of BiVO ₄ Photoanodes. <i>Chemistry of Materials</i> , 2016, 28, 5761-5771.	3.2	104
4	Eco-friendly synthesis of metal dichalcogenides nanosheets and their environmental remediation potential driven by visible light. <i>Scientific Reports</i> , 2015, 5, 15718.	1.6	100
5	On the origin of photoluminescence in indium oxide octahedron structures. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	91
6	Analysis of Dipolar and Exchange Interactions between Manganese and Tyrosine Z in the S ₂ Z State of Acetate-Inhibited Photosystem II via EPR Spectral Simulations at X- and Q-Bands. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8327-8335.	1.2	89
7	Tetraazacyclophanes by Palladium-Catalyzed Aromatic Amination. Geometrically Defined, Stable, High-Spin Diradicals. <i>Organic Letters</i> , 1999, 1, 2057-2060.	2.4	89
8	Q-Band EPR of the S ₂ State of Photosystem II Confirms an S = 5/2 Origin of the X-Band g = 4.1 Signal. <i>Biophysical Journal</i> , 2004, 87, 2885-2896.	0.2	74
9	Bidirectional Electron Transfer in Photosystem I: Direct Evidence from High-Frequency Time-Resolved EPR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 11910-11911.	6.6	73
10	Dipolar Correlation NMR Spectroscopy of a Membrane Protein. <i>Journal of the American Chemical Society</i> , 1994, 116, 10178-10181.	6.6	62
11	Characterization of the Interaction between Manganese and Tyrosine Z in Acetate-Inhibited Photosystem II. <i>Biochemistry</i> , 1998, 37, 13594-13603.	1.2	60
12	Aryl Group Transfer from Tetraarylborato Anions to an Electrophilic Dicopper(I) Center and Mixed-Valence 1/4-Aryl Dicopper(I,II) Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 6484-6491.	6.6	54
13	Orientation of the Tetranuclear Manganese Cluster and Tyrosine Z in the O ₂ -Evolving Complex of Photosystem II: An EPR Study of the S ₂ Z State in Oriented Acetate-Inhibited Photosystem II Membranes. <i>Biochemistry</i> , 1999, 38, 12758-12767.	1.2	53
14	Probing the Functional Role of Ca ²⁺ in the Oxygen-Evolving Complex of Photosystem II by Metal Ion Inhibition. <i>Biochemistry</i> , 2007, 46, 3211-3223.	1.2	51
15	Pulsed electron paramagnetic resonance methods for macromolecular structure determination. <i>Current Opinion in Structural Biology</i> , 2001, 11, 523-531.	2.6	50
16	Electronic Structure of the P700 Special Pair from High-Frequency Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8911-8916.	1.2	48
17	High-Field EPR Study of Carotenoid and Chlorophyll Cation Radicals in Photosystem II. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10445-10448.	1.2	46
18	Internuclear distance measurement in a reaction intermediate: solid-state carbon-13 NMR rotational resonance determination of the Schiff base configuration in the M photointermediate of bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , 1993, 115, 8515-8516.	6.6	45

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19	Solid state NMR study of [ϵ - ^{13}C]Lys-bacteriorhodopsin: Schiff base photoisomerization. <i>Biophysical Journal</i> , 1993, 65, 310-315.	0.2	42
20	Stabilization of reactive Co^{4+} O^{4+} cubane oxygen-evolution catalysts within porous frameworks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11630-11639.	3.3	41
21	Aqueous Spectroscopy and Redox Properties of Carboxylate-Bound Titanium. <i>Inorganic Chemistry</i> , 2006, 45, 1795-1804.	1.9	39
22	Solid State ^{13}C and ^{15}N NMR Investigations of the N Intermediate of Bacteriorhodopsin. <i>Biochemistry</i> , 1994, 33, 8853-8857.	1.2	35
23	Tuning the Wettability of Indium Oxide Nanowires from Superhydrophobic to Nearly Superhydrophilic: Effect of Oxygen-Related Defects. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16026-16032.	1.5	33
24	Factors that determine the unusually low reduction potential of cytochrome c 550 in cyanobacterial photosystem II. <i>Journal of Biological Inorganic Chemistry</i> , 2001, 6, 708-716.	1.1	29
25	Pulsed High-Frequency EPR Study on the Location of Carotenoid and Chlorophyll Cation Radicals in Photosystem II. <i>Journal of the American Chemical Society</i> , 2003, 125, 5005-5014.	6.6	28
26	Correlation of the cytochrome c (550) content of cyanobacterial Photosystem II with the EPR properties of the oxygen-evolving complex. <i>Photosynthesis Research</i> , 2002, 72, 175-189.	1.6	27
27	Selective electrochemical reduction of CO_2 to CO on $\text{CuO}/\text{In}_2\text{O}_3$ nanocomposites: role of oxygen vacancies. <i>Catalysis Science and Technology</i> , 2019, 9, 5339-5349.	2.1	25
28	High-Resolution Two-Dimensional ^1H and ^{14}N Hyperfine Sublevel Correlation Spectroscopy of the Primary Quinone of Photosystem II. <i>Biochemistry</i> , 2011, 50, 491-501.	1.2	24
29	Isolation and characterization of the iron-binding properties of a primitive monolobal transferrin from <i>Ciona intestinalis</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 873-885.	1.1	23
30	Ligand Environment of the S_2 State of Photosystem II: A Study of the Hyperfine Interactions of the Tetranuclear Manganese Cluster by $^{2}\text{D}^{14}\text{N}$ HYSCORE Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10905-10911.	1.2	22
31	The structure and activation of substrate water molecules in the S_2 state of photosystem II studied by hyperfine sublevel correlation spectroscopy. <i>Energy and Environmental Science</i> , 2012, 5, 7747.	15.6	22
32	Is Deprotonation of the Oxygen-Evolving Complex of Photosystem II during the $\text{S}_1 \rightarrow \text{S}_2^+$ Transition Suppressed by Proton Quantum Delocalization?. <i>Journal of the American Chemical Society</i> , 2021, 143, 8324-8332.	6.6	21
33	The Structure and Function of Quinones in Biological Solar Energy Transduction: A Cyclic Voltammetry, EPR, and Hyperfine Sub-Level Correlation (HYSCORE) Spectroscopy Study of Model Naphthoquinones. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7210-7220.	1.2	20
34	Monomeric, Divalent Vanadium Bis(arylamido) Complexes: Linkage Isomerism and Reactivity. <i>Organometallics</i> , 2019, 38, 1648-1663.	1.1	20
35	Effect of Hydrogen Bond Strength on the Redox Properties of Phylloquinones: A Two-Dimensional Hyperfine Sublevel Correlation Spectroscopy Study of Photosystem I. <i>Biochemistry</i> , 2011, 50, 3495-3501.	1.2	19
36	The structure and activation of substrate water molecules in Sr^{2+} -substituted photosystem II. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20834-20843.	1.3	19

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37	Shedding Light on Primary Donors in Photosynthetic Reaction Centers. <i>Frontiers in Microbiology</i> , 2021, 12, 735666.	1.5	19
38	Location of the Iron-Sulfur Clusters FA and FB in Photosystem I: An Electron Paramagnetic Resonance Study of Spin Relaxation Enhancement of P700. <i>Biochemistry</i> , 1999, 38, 13210-13215.	1.2	18
39	Structure and Function of Quinones in Biological Solar Energy Transduction: A Differential Pulse Voltammetry, EPR, and Hyperfine Sublevel Correlation (HYSCORE) Spectroscopy Study of Model Benzoquinones. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15409-15418.	1.2	18
40	Two-dimensional ⁶⁷ Zn HYSCORE spectroscopy reveals that a Zn-bacteriochlorophyll <i>a</i> P ₈₄₀ dimer is the primary donor (P ₈₄₀) in the type-I reaction centers of <i>Chloracidobacterium thermophilum</i> . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6457-6467.	1.3	17
41	Two-Dimensional ¹ H HYSCORE Spectroscopy of Dimanganese Di- ¹ / ₄ -oxo Mimics of the Oxygen-Evolving Complex of Photosystem II. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12220-12229.	1.2	16
42	High-Frequency Electron Nuclear Double-Resonance Spectroscopy Studies of the Mechanism of Proton-Coupled Electron Transfer at the Tyrosine-D Residue of Photosystem II. <i>Biochemistry</i> , 2013, 52, 4781-4790.	1.2	16
43	The role of stoichiometry of indium and oxygen on gas sensing properties of indium oxide nanostructures. <i>Applied Physics Letters</i> , 2010, 96, 123114.	1.5	13
44	A dimeric chlorophyll electron acceptor differentiates type I from type II photosynthetic reaction centers. <i>IScience</i> , 2021, 24, 102719.	1.9	13
45	Investigating the role of hydrogen in indium oxide tubular nanostructures as a donor or oxygen vacancy passivation center. <i>Applied Physics Letters</i> , 2009, 95, 013102.	1.5	12
46	Electron Paramagnetic Resonance Distance Measurements in Photosystems. <i>Biological Magnetic Resonance</i> , 2002, , 513-567.	0.4	11
47	Two-dimensional ¹⁴ N HYSCORE spectroscopy of the coordination geometry of ligands in dimanganese di- ¹ / ₄ -oxo mimics of the oxygen evolving complex of photosystem II. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7090.	1.3	10
48	Low-Temperature Turnover Control of Photosystem II Using Novel Metal-Containing Redox-Active Herbicides. <i>Journal of the American Chemical Society</i> , 2000, 122, 5180-5188.	6.6	9
49	The Assembly of a Multisubunit Photosynthetic Membrane Protein Complex: A Site-Specific Spin Labeling EPR Spectroscopic Study of the PsaC Subunit in Photosystem I. <i>Biochemistry</i> , 2010, 49, 2398-2408.	1.2	9
50	A Stable Seven-Membered Heterocycle, Containing B, C, N, O, and P Atoms, inside a Smaragdyrin Macrocycle. <i>Chemistry - A European Journal</i> , 2015, 21, 11315-11319.	1.7	9
51	Redox-Initiated Reactivity of Dinuclear ¹ / ₂ -Diketiminato-niobium Imido Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 1626-1637.	1.9	9
52	Two-Dimensional HYSCORE Spectroscopy of Superoxidized Manganese Catalase: A Model for the Oxygen-Evolving Complex of Photosystem II. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4905-4916.	1.2	8
53	Structure and Function of Quinones in Biological Solar Energy Transduction: A High-Frequency D-Band EPR Spectroscopy Study of Model Benzoquinones. <i>Journal of Physical Chemistry B</i> , 2012, 116, 676-682.	1.2	7
54	Synthesis and Quantum Mechanical Studies of a Highly Stable Ferrocene-Incorporated Expanded Porphyrin. <i>Inorganic Chemistry</i> , 2016, 55, 6873-6881.	1.9	6

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55	Calixsmaragdyrin: A Versatile Ligand for Coordination Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 3763-3772.	1.9	6
56	Mixed Boron(III) and Phosphorous(V) Complexes of <i>meso</i> -Triaryl Oxasmaragdyrins. <i>Chemistry - A European Journal</i> , 2016, 22, 9699-9708.	1.7	5
57	Titanium Imido Complexes by Displacement of SiMe_3 and C-H Bond Activation in a Ti^{III} Amido Complex, Promoted by a Cyclic (Alkyl)(Amino) Carbene (cAAC). <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2484-2487.	1.0	5
58	A Dicopper Nitrenoid by Oxidation of a CuCu Core: Synthesis, Electronic Structure, and Reactivity. <i>Journal of the American Chemical Society</i> , 2021, 143, 7135-7143.	6.6	5
59	Two-dimensional HYSORE spectroscopy reveals a histidine imidazole as the axial ligand to Chl3A in the M688HPsaA genetic variant of Photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148424.	0.5	5
60	Construction of Novel Cyclic Tetrads by Axial Coordination of Thiaporphyrins to Tin(IV) Porphyrin. <i>Inorganic Chemistry</i> , 2017, 56, 13913-13929.	1.9	4
61	Binding of the substrate analog methanol in the oxygen-evolving complex of photosystem II in the D1-N87A genetic variant of cyanobacteria. <i>Faraday Discussions</i> , 2022, 234, 195-213.	1.6	4
62	Significance of hydrogen bonding networks in the proton-coupled electron transfer reactions of photosystem II from a quantum-mechanics perspective. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8721-8728.	1.3	3
63	Bio-Inspired Molecular Catalysts for Water Oxidation. <i>Catalysts</i> , 2021, 11, 1068.	1.6	3
64	HYSORE and DFT Studies of Proton-Coupled Electron Transfer in a Bioinspired Artificial Photosynthetic Reaction Center. <i>IScience</i> , 2020, 23, 101366.	1.9	2
65	Determining the Electronic Structure of Paramagnetic Intermediates in membrane proteins: A high-resolution 2D ^1H hyperfine sublevel correlation study of the redox-active tyrosines of photosystem II. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183422.	1.4	2
66	The Radical Intermediates of Photosystem II. , 2014, , 299-320.		2
67	Elucidating the design principles of photosynthetic electron-transfer proteins by site-directed spin labeling EPR spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 548-556.	0.5	1
68	Foreword to: Biophysical studies of membrane systems and interactions - Commemorative issue in honour of Professor Michèle Auger. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183609.	1.4	0