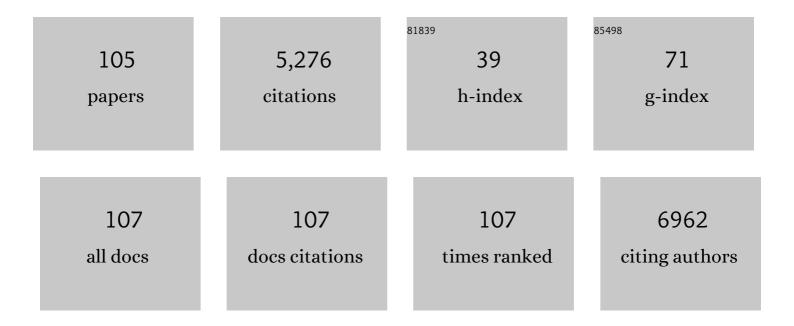
Sameer Sapra

List of Publications by Year in descending order

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SAMFED SADDA

#	Article	IF	CITATIONS
1	Insight into morphology dependent charge carrier dynamics in ZnSe–CdS nanoheterostructures. Physical Chemistry Chemical Physics, 2022, 24, 8519-8528.	1.3	6
2	Impact of Bifunctional Ligands on Charge Transfer Kinetics in CsPbBr ₃ –CdSe/CdS/ZnS Nanohybrids. Journal of Physical Chemistry Letters, 2022, 13, 2591-2599.	2.1	6
3	MoSe ₂ /SnS Nanoheterostructures for Water Splitting. ACS Applied Nano Materials, 2022, 5, 4293-4304.	2.4	22
4	Development of magnetic nanoparticle assisted aptamer-quantum dot based biosensor for the detection of Escherichia coli in water samples. Science of the Total Environment, 2022, 831, 154857.	3.9	18
5	Green Synthesis-Mediated Silver Nanoparticles Based Biocomposite Films for Wound Healing Application. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 2994-3011.	1.9	8
6	Cu2S decorated MoSe2 nanosheets as counter electrode for quantum dot sensitized solar cells. Materials Today: Proceedings, 2021, 36, 605-608.	0.9	5
7	Colloidal lead-free Cs2AgBiBr6 double perovskite nanocrystals: Synthesis, uniform thin-film fabrication, and application in solution-processed solar cells. Nano Research, 2021, 14, 1126-1134.	5.8	39
8	Nanoparticle-Stabilized Perforated Lamellar Morphology in Block Copolymer/Quantum Dot Hybrids. Macromolecules, 2021, 54, 1216-1223.	2.2	8
9	MoSe ₂ –Cu _{2–<i>x</i>} S/GaAs Heterostructure-Based Self-Biased Two Color-Band Photodetectors with High Detectivity. Journal of Physical Chemistry C, 2021, 125, 10768-10776.	1.5	9
10	Enhanced Photoluminescence of Gold Nanoparticleâ€Quantum Dot Hybrids Confined in Hairy Polymer Nanofibers. ChemNanoMat, 2021, 7, 831-841.	1.5	5
11	Understanding the efficient electrocatalytic activities of MoSe ₂ –Cu ₂ S nanoheterostructures. Journal of Materials Chemistry A, 2021, 9, 9837-9848.	5.2	31
12	Lead-Free Alloyed Double-Perovskite Nanocrystals of Cs ₂ (Na _{<i>x</i>} Ag _{1–<i>x</i>})BiBr ₆ with Tunable Band Gap. Journal of Physical Chemistry C, 2021, 125, 1954-1962.	1.5	36
13	Precursor-Mediated Synthesis of Shape-Controlled Colloidal CsPbBr ₃ Perovskite Nanocrystals and Their Nanofiber-Directed Self-Assembly. Chemistry of Materials, 2020, 32, 721-733.	3.2	37
14	Enhanced photovoltaic performance of Y2O3:Ho3+/Yb3+ upconversion nanophosphor based DSSC and investigation of color tunability in Ho3+/Tm3+/Yb3+ tridoped Y2O3. Journal of Alloys and Compounds, 2020, 821, 153230.	2.8	33
15	Enhanced Photocurrent Owing to Shuttling of Charge Carriers across 4-Aminothiophenol-Functionalized MoSe ₂ –CsPbBr ₃ Nanohybrids. ACS Applied Materials & Interfaces, 2020, 12, 7317-7325.	4.0	35
16	Band Gap Engineering in Cs ₂ (Na _{<i>x</i>} Ag _{1–<i>x</i>})BiCl ₆ Double Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 5173-5181.	2.1	109
17	Fluorescence resonance energy transfer in multifunctional nanofibers designed via block copolymer self-assembly. Physical Chemistry Chemical Physics, 2019, 21, 16137-16146.	1.3	10
18	Solution-Processed Cubic GaN for Potential Lighting Applications. MRS Advances, 2019, 4, 567-574.	0.5	2

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19	Efficient fluorescence quenching of CdSe quantum dots on epitaxial GaAs nanostructures. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	4
20	GaN nanostructures by reactive ion etching: Mask and Maskless approach. Nano Structures Nano Objects, 2019, 18, 100284.	1.9	5
21	Effect of pressure and time on the self catalyzed growth of epitaxial GaAs nanostructures by MOCVD. Vacuum, 2019, 164, 343-348.	1.6	7
22	Colloidally synthesized defect-rich \$\$hbox {MoSe}_{2}\$ MoSe 2 nanosheets for superior catalytic activity. Bulletin of Materials Science, 2019, 42, 1.	0.8	12
23	Nickel Selenide Nanoparticles as a Cheap Alternative for Pt-Counter Electrode in Dye-Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2019, 19, 375-382.	0.9	4
24	MoSe ₂ –Cu ₂ S Vertical p–n Nanoheterostructures for High-Performance Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 4074-4083.	4.0	45
25	Fluorescence Quenching of CdTe Quantum Dots with Co (III) Complexes via Electrostatic Assembly Formation. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1413-1430.	1.4	5
26	Tuning the Electronic and Magnetic Properties of CuAlO ₂ Nanocrystals Using Magnetic Dopants. ACS Omega, 2018, 3, 509-513.	1.6	13
27	Role of Tryptophan in Protein–Nanocrystals Interaction: Energy or Charge Transfer. Zeitschrift Fur Physikalische Chemie, 2018, 233, 41-54.	1.4	4
28	Surface Decides the Photoluminescence of Colloidal CdSe Nanoplatelets Based Core/Shell Heterostructures. Journal of Physical Chemistry C, 2018, 122, 820-829.	1.5	33
29	A Solution Processed CdSe N Ano-Platelets Based Sensor for Cd Detection. , 2018, , .		0
30	Sizeâ€Tunable Synthesis of Colloidal Silver Sulfide Nanocrystals for Solutionâ€Processed Photovoltaic Applications. ChemistrySelect, 2018, 3, 5620-5629.	0.7	11
31	Facile Green Synthesis of BiOBr Nanostructures with Superior Visible-Light-Driven Photocatalytic Activity. Materials, 2018, 11, 1273.	1.3	39
32	Biofabricated BiOI with enhanced photocatalytic activity under visible light irradiation. RSC Advances, 2018, 8, 29022-29030.	1.7	27
33	Evaluation of remineralization potential and mechanical properties of pit and fissure sealants fortified with nano-hydroxyapatite and nano-amorphous calcium phosphate fillers: An in vitro study. Journal of Conservative Dentistry, 2018, 21, 681.	0.3	29
34	Solvent-free, mechanochemical syntheses of bulk trihalide perovskites and their nanoparticles. Chemical Communications, 2017, 53, 3046-3049.	2.2	118
35	Quantum Dots in Visible-Light Photoredox Catalysis: Reductive Dehalogenations and C–H Arylation Reactions Using Aryl Bromides. Chemistry of Materials, 2017, 29, 5225-5231.	3.2	71
36	Efficient Charge Extraction from CdSe/ZnSe Dots-on-Plates Nanoheterostructures. ACS Omega, 2017, 2, 2231-2237.	1.6	12

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37	Functionalized Molybdenum Disulfide Nanosheets for 0D–2D Hybrid Nanostructures: Photoinduced Charge Transfer and Enhanced Photoresponse. Journal of Physical Chemistry Letters, 2017, 8, 1729-1738.	2.1	67
38	Synthesis of trap emission free cadmium sulfide quantum dots: Role of phosphonic acids and halide ions. Journal of Colloid and Interface Science, 2017, 491, 329-335.	5.0	16
39	Functionalized 2D-MoS ₂ -Incorporated Polymer Ternary Solar Cells: Role of Nanosheet-Induced Long-Range Ordering of Polymer Chains on Charge Transport. ACS Applied Materials & Interfaces, 2017, 9, 34111-34121.	4.0	34
40	Coalesced nanomorphology, in situ , and ex situ applications of self assembled Gallium droplets grown by metal organic chemical vapor deposition. Chemical Physics, 2017, 493, 175-182.	0.9	3
41	Nanocrystal–Dye Interactions: Studying the Feasibility of Coâ€Sensitization of Dyes with Semiconductor Nanocrystals. ChemPhysChem, 2017, 18, 2509-2516.	1.0	11
42	Long-Lived Emission in Type-II CdS/ZnSe Core/Crown Nanoplatelet Heterostructures. Journal of Physical Chemistry C, 2017, 121, 27241-27246.	1.5	18
43	Instant Synthesis of White Lightâ€Emitting Cd Chalcogenide Nanoclusters Using Homogenization Method. ChemistrySelect, 2017, 2, 11775-11782.	0.7	4
44	Size of the Organic Cation Tunes the Band Gap of Colloidal Organolead Bromide Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2016, 7, 3270-3277.	2.1	118
45	Thicknessâ€Dependent Charge Carrier Dynamics in CdSe/ZnSe/CdS Core/Barrier/Shell Nanoheterostructures. ChemPhysChem, 2016, 17, 692-698.	1.0	6
46	Cancer Cell Targeting Using Folic Acid/Anti-HER2 Antibody Conjugated Fluorescent CdSe/CdS/ZnS-Mercaptopropionic Acid and CdTe-Mercaptosuccinic Acid Quantum Dots. Journal of Nanoscience and Nanotechnology, 2016, 16, 130-143.	0.9	14
47	Narrowing the size distribution of CdTe nanocrystals using digestive ripening. Pramana - Journal of Physics, 2015, 84, 1049-1054.	0.9	4
48	Localization and Dynamics of Long‣ived Excitations in Colloidal Semiconductor Nanocrystals with Dual Quantum Confinement. ChemPhysChem, 2015, 16, 1663-1669.	1.0	10
49	Cancer Cell Targeting Using Folic Acid/Anti-HER2 Antibody Conjugated Fluorescent CdSe/CdS/ZnS-MPA and CdTe-MSA Quantum Dots. Journal of Nanoscience and Nanotechnology, 2015, 15, 9382-9395.	0.9	5
50	Electrically driven assembly of CdTe quantum dots into photoconductive microwires. Journal of Materials Chemistry C, 2015, 3, 1645-1648.	2.7	6
51	Probing the Mechanism of Fluorescence Quenching of QDs by Co(III)-Complexes: Size of QD and Nature of the Complex Both Dictate Energy and Electron Transfer Processes. Journal of Physical Chemistry C, 2015, 119, 22690-22699.	1.5	52
52	Photocatalysis from Fluorescence-Quenched CdSe/Au Nanoheterostructures: A Size-Dependent Study. Journal of Physical Chemistry Letters, 2014, 5, 1909-1916.	2.1	52
53	Simultaneous Type-I/Type-II Emission from CdSe/CdS/ZnSe Nano-Heterostructures. ACS Nano, 2014, 8, 113-123.	7.3	76
54	Intracellular delivery of peptide cargos using iron oxide based nanoparticles: studies on antitumor efficacy of a BCL-2 converting peptide, NuBCP-9. Nanoscale, 2014, 6, 14473-14483.	2.8	11

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55	Investigation of the Photophysical and Electrical Characteristics of CuInS2 QDs/SWCNT Hybrid Nanostructure. Journal of Physical Chemistry C, 2014, 118, 11409-11416.	1.5	15
56	Quantum Dots Self Assembly Based Interface for Blood Cancer Detection. Langmuir, 2013, 29, 8753-8762.	1.6	30
57	Electron transfer from CdSe–ZnS core–shell quantum dots to cobalt(iii) complexes. Physical Chemistry Chemical Physics, 2013, 15, 15888.	1.3	32
58	Wurtzite or zinc blende? Surface decides the crystal structure of nanocrystals. CrystEngComm, 2013, 15, 5458.	1.3	43
59	Tumor cell targetting using folate conjugated core/shell CdSe/CdS/ZnS nano rods. , 2013, , .		1
60	Synthesis of Core–Shell Quantum Dots and Their Potential Application. Springer Proceedings in Physics, 2013, , 85-93.	0.1	3
61	Enhanced performance of organic photovoltaic devices by incorporation of tetrapodâ€shaped CdSe nanocrystals in polymer–fullerene systems. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 785-790.	0.8	18
62	Nanopatterned Cadmium Selenide Langmuir–Blodgett Platform for Leukemia Detection. Analytical Chemistry, 2012, 84, 3082-3089.	3.2	46
63	Chitosan encapsulated quantum dots platform for leukemia detection. Biosensors and Bioelectronics, 2012, 38, 107-113.	5.3	67
64	Cellular interaction of folic acid conjugated superparamagnetic iron oxide nanoparticles and its use as contrast agent for targeted magnetic imaging of tumor cells. International Journal of Nanomedicine, 2012, 7, 3503.	3.3	54
65	Localized Surface Plasmon Resonance-Based Fiber Optic U-Shaped Biosensor for the Detection of Blood Glucose. Plasmonics, 2012, 7, 261-268.	1.8	144
66	Selective capturing and detection of Salmonella typhi on polycarbonate membrane using bioconjugated quantum dots. Talanta, 2011, 84, 952-962.	2.9	24
67	Detection of Bioconjugated Quantum Dots Passivated with Different Ligands for Bio-Applications. Journal of Nanoscience and Nanotechnology, 2011, 11, 3834-3842.	0.9	13
68	BIOCONJUGATED QUANTUM DOTS BASED RAPID DETECTION OF PATHOGENIC BACTERIA FROM WATER SAMPLES. International Journal of Nanoscience, 2011, 10, 199-203.	0.4	3
69	Origin of the Enhanced Photoluminescence from Semiconductor CdSeS Nanocrystals. Journal of Physical Chemistry Letters, 2010, 1, 2149-2153.	2.1	126
70	Growth Mechanism of Cadmium Sulfide Nanocrystals. Journal of Physical Chemistry Letters, 2010, 1, 304-308.	2.1	14
71	The Importance of Surface in Coreâ^'Shell Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 22514-22518.	1.5	32
72	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. Nature Nanotechnology, 2009, 4, 193-201.	15.6	159

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73	Luminescence in Mn-doped CdS nanocrystals. Bulletin of Materials Science, 2008, 31, 561-568.	0.8	51
74	Decorated wires as a reaction product of the microwave-assisted synthesis of CdSe in the presence of glycine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 317, 737-741.	2.3	5
75	Tuning shades of white light with multi-color quantum-dot–quantum-well emitters based on onion-like CdSe–ZnS heteronanocrystals. Nanotechnology, 2008, 19, 335203.	1.3	45
76	White emitting CdS quantum dot nanoluminophores hybridized on near-ultraviolet LEDs for high-quality white light generation and tuning. New Journal of Physics, 2008, 10, 023026.	1.2	55
77	Dual-color emitting quantum-dot-quantum-well CdSe-ZnS heteronanocrystals hybridized on InGaNâ^•GaN light emitting diodes for high-quality white light generation. Applied Physics Letters, 2008, 92, .	1.5	74
78	Selective enhancement of surface-state emission and simultaneous quenching of interband transition in white-luminophor CdS nanocrystals using localized plasmon coupling. New Journal of Physics, 2008, 10, 083035.	1.2	39
79	Multi-layered CdSe/ZnS/CdSe heteronanocrystals to generate and tune white light. , 2008, , .		1
80	Growth of Semiconducting Nanocrystals of CdS and ZnS. Journal of Nanoscience and Nanotechnology, 2007, 7, 1726-1729.	0.9	12
81	White CdS Nanoluminophore based Tunable Hybrid Light Emitting Diodes. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
82	Synthesis of CdSe Nanocrystals in a Noncoordinating Solvent: Effect of Reaction Temperature on Size and Optical Properties. Journal of Nanoscience and Nanotechnology, 2007, 7, 1965-1968.	0.9	26
83	Temperature dependence of exciton transfer in hybrid quantum well/nanocrystal heterostructures. Applied Physics Letters, 2007, 91, .	1.5	35
84	CdTe Nanowire Networks:  Fast Self-Assembly in Solution, Internal Structure, and Optical Properties. Journal of Physical Chemistry C, 2007, 111, 18927-18931.	1.5	47
85	Bright White-Light Emission from Semiconductor Nanocrystals: by Chance and by Design. Advanced Materials, 2007, 19, 569-572.	11.1	233
86	CdSe Nanorod Synthesis: A New Approach. Small, 2007, 3, 1886-1888.	5.2	43
87	White-light emission from a blend of CdSeS nanocrystals of different Se:S ratio. Nanotechnology, 2007, 18, 075401.	1.3	72
88	A Study of Mn2+Doping in CdS Nanocrystals. Chemistry of Materials, 2007, 19, 3252-3259.	3.2	138
89	Phosphine-free synthesis of monodisperse CdSe nanocrystals in olive oil. Journal of Materials Chemistry, 2006, 16, 3391.	6.7	132
90	Unraveling Internal Structures of Highly Luminescent PbSe Nanocrystallites Using Variable-Energy Synchrotron Radiation Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 15244-15250.	1.2	52

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91	Fast and Spatially Resolved Environmental Probing Using Stimuli-Responsive Polymer Layers and Fluorescent Nanocrystals. Advanced Materials, 2006, 18, 1453-1457.	11.1	99
92	Simultaneous control of nanocrystal size and nanocrystal-nanocrystal separation in CdS nanocrystal assembly. Pramana - Journal of Physics, 2005, 65, 565-570.	0.9	54
93	Magnetic Properties of Doped II–VI Semiconductor Nanocrystals. Journal of Nanoscience and Nanotechnology, 2005, 5, 1503-1508.	0.9	16
94	Emission Properties of Manganese-Doped ZnS Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 1663-1668.	1.2	236
95	Electronic structure of and quantum size effect in III-V and II-VI semiconducting nanocrystals using a realistic tight binding approach. Physical Review B, 2005, 72, .	1.1	91
96	ELECTRONIC STRUCTURE OF SEMICONDUCTOR NANOCRYSTALS: AN ACCURATE TIGHT-BINDING DESCRIPTION. International Journal of Nanoscience, 2005, 04, 893-899.	0.4	0
97	Understanding the quantum size effects in ZnO nanocrystals. Journal of Materials Chemistry, 2004, 14, 661.	6.7	297
98	Synthesis and Characterization of Mn-Doped ZnO Nanocrystals. Journal of Physical Chemistry B, 2004, 108, 6303-6310.	1.2	279
99	Evolution of the electronic structure with size in II-VI semiconductor nanocrystals. Physical Review B, 2004, 69, .	1.1	289
100	An accurate description of quantum size effects in InP nanocrystallites over a wide range of sizes. Journal Physics D: Applied Physics, 2003, 36, 1595-1598.	1.3	21
101	Optical and Magnetic Properties of Manganese-Doped Zinc Sulfide Nanoclusters. Journal of Nanoscience and Nanotechnology, 2003, 3, 392-400.	0.9	39
102	Realistic tight-binding model for the electronic structure of II-VI semiconductors. Physical Review B, 2002, 66, .	1.1	83
103	Influence of Quantum Confinement on the Electronic and Magnetic Properties of (Ga,Mn)As Diluted Magnetic Semiconductor. Nano Letters, 2002, 2, 605-608.	4.5	101
104	Blue emission from cysteine ester passivated cadmium sulfide nanoclusters. Chemical Communications, 2001, , 2188-2189.	2.2	58
105	Size-Selected Zinc Sulfide Nanocrystallites:  Synthesis, Structure, and Optical Studies. Chemistry of Materials, 2000, 12, 1018-1024.	3.2	361