



**JADAVPUR UNIVERSITY**  
**KOLKATA - 700032**

GO No.1343-Edn(U)/1U-41/11(Pt) dt.07.12.2017  
EC Res. No. 18 Dated 12.11.2022

**APPLICATION FORM FOR PROMOTION OF UNIVERSITY TEACHERS UNDER CAREER ADVANCEMENT SCHEME**

**From : Stage/ Designation :** Associate Prof. (Stage 4)

**To : Stage/ Designation :** Professor (Stage 5)

(Assistant Professor Stage 1 to Stage 2, Stage 2 to Stage 3), Assistant Professor (Stage 3) to Associate Professor (Stage 4), Associate Professor (Stage 4) to Professor/equivalent cadres (Stage 5).

**PART A : GENERAL INFORMATION AND ACADEMIC BACKGROUND**

1. Employee Id	160003
2. Full Name	SAIKAT KUMAR SETH
3. Father's Name / Mother's Name	KALIPADA SETH
4. Date of Birth	24-03-1983
5. Category	SC <a href="#">Doc Link</a>
6. Differently Abled	No
7. Department / School	PHYSICS
8. Current Designation	Associate Professor
9. Academic Grade Pay (AGP) / Level	9000/13A
10. Highest Qualification	Ph.D
11. Date of last promotion , if any	21-03-2020 <a href="#">Doc Link</a>
12. Date of eligibility for promotion	21-03-2023
13. Assessment Period (in years)	3
14. Address for correspondence	Department Of Physics, Jadavpur University, Kolkata 700032
15. Permanent Address	Abasbari (Town), Ward No-6, Tamluk, Purba Medinipur, West Bengal – 721636, India.
16. Mobile No.	9433740301
17. E-mail Id	saikat.k.seth@jadavpuruniversity.in



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## **Part B. Academic Qualifications :**

### **A. Last Academic Qualifications (From graduation onwards excluding research degree(s)):**

<b>Degree/ Diploma</b>	<b>Name of the Board/ University</b>	<b>Year of Passing</b>	<b>(%)of Marks Obtained</b>	<b>Division/ Class/Grade</b>	<b>Subject(s)</b>	<b>Doc Link</b>
M. SC.	JADAVPUR UNIVERSITY	2004	62.27%	1st class	Physics	<a href="#">View</a>

### **B. Research Degrees:**

<b>Degree</b>	<b>Title of Dissertation/Thesis</b>	<b>Date of Award</b>	<b>Name of the University</b>	<b>Doc Link</b>
PH.D.	Structural Eludication Of Some Organic And Metal Organic Complexes Using X-Ray Diffraction	21-03-2012	JADAVPUR UNIVERSITY (INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE)	<a href="#">View</a>



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**Part C. Professional Experience :**

**A.Position(s) held Prior to Joining this University, if any:**

Designation	Name of Employer	Date of Joining	Date of Leaving	Gross Salary	Reason for Leaving	Doc Link
Assistant Professor (Stage 2)	Principal, Mugberia Gangadhar Mahavidyalaya	08-11-2006	14-01-2016	655056	To join in Jadavpur University	<a href="#">View</a>

**B.Posts held after Appointment at the University :**

Designation	Department/School	From date	To date	Pay Scale	AGP/Level	Doc Link
Assistant Professor - Stage 2	PHYSICS	15-01-2016	20-03-2017	Rs. 15600-39100	7000/11	<a href="#">View</a>



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**Part D. Teaching Experience :**

**A.Period of Teaching and / or Research Experience :**

Level of Classes	No. of Years
PG Classes	6
UG Classes	15
Post-doctoral Research	1
Doctoral Research	10

**B.Field(s) of Specialisation under the Subject/Discipline :**

(A) MATERIALS SCIENCE  
(B) X-RAY CRYSTALLOGRAPHY AND CRYSTAL ENGINEERING



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**Part E. Orientation / Induction Program(s) or Refresher / Short-term Course(s):**

**Program(s) / Course(s) Attended :**

Title of the Course	Place	Duration (No. of Weeks)	Period : From Date- To Date	Doc Link
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**API SCORE CALCULATION MATRIX**

**API CATEGORY : I. TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES**

Sl.No.	Nature of Activity	Max Marks	Hours spent per academic year	Self Appraisal Score	Verified API Score	Doc.Link
1.	Direct Teaching (self declaration)	60	450	58.06	58.06	<a href="#">View</a>
2.	Examination duties (question paper setting, Invigilation, evaluation of answer scripts etc.) (self declaration)	10	100	10.00	10.00	<a href="#">View</a>
3.	Innovative Teaching-learning methodologies, updating of subject contents/courses, mentoring etc. (self declaration)	20	195	19.50	19.50	<a href="#">View</a>
<b>Total</b>				<b>87.56</b>		



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**API SCORE CALCULATION MATRIX**

**CATEGORY II: PROFESSIONAL DEVELOPMENT, CO-CURRICULAR AND EXTENSION ACTIVITIES**

Nature of Activity	Max Marks	Hours spent per academic year	Self Appraisal Score	Verified API Score	Doc.Link
a). Student related co-curricular, extension and field based activities. (i) Discipline related co-curricular activities (e.g. remedial classes, career counseling, study visit, student seminar and other events.) (ii) Other co-curricular activities (Cultural, Sports, NSS, NCC etc.). Extension and dissemination activities (public /popular lectures/talks/seminars etc.)	15	150	15.00	15.00	<a href="#">View</a>
b). Contribution to corporate life and management of the department and institution through participation in academic and administrative committees and responsibilities. i). Administrative responsibility (including as Dean / Principal / Chairperson / Convener / Teacher-in-charge/ similar other duties that require regular office hrs for its discharge) ii). Participation in Board of Studies, Academic and Administrative Committees (Self declaration)	15	150	15.00	15.00	<a href="#">View</a>
c.) Professional Development activities (such as participation in seminars, conferences, short term training courses, industrial experience, talks, lectures in refreshers/faculty development courses, dissemination and general articles and any other contribution	15	150	15.00	15.00	<a href="#">View</a>
<b>Total</b>			<b>45.00</b>		

## API SCORE CALCULATION MATRIX

### CATEGORY III: Research and Academic Contribution

#### III-A : Journal Publication

Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of other co - authors	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
1	2023	Quantitative analysis of intermolecular interactions in crystalline substituted triazoles	4	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	1273, 134380	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
2	2023	Intriguing $\pi$ -interactions involving aromatic neutrals, aromatic cations and semiconducting behavior in a pyridinium-carboxylate salt	5	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	DOI: 10.1016/j.molstruc.2023.135326	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
3	2023	Helical coordination complex of Hg(ClO <sub>4</sub> ) <sub>2</sub> with bulky hydrazine derivative: A Möbius-like discrete metal chelate	7	Corresponding author / supervisor / mentor	0	Inorganic Chemistry Communications	149, 110393	UGC Care List	3.428	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
4	2022	pH-induced structural variations of two new Mg(II)-PDA complexes: experimental and theoretical studies	5	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	1265, 133373	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
5	2022	Structural elucidation of phenoxybenzaldehyde derivatives from laboratory powder X-ray diffraction: A combined experimental and theoretical quantum mechanical study	4	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	1268, 133697	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
6	2022	Exploring Solid-State Supramolecular Architectures of Penta(carboxymethyl)diethylenetriamine: Experimental Observation and Theoretical Studies	5	Corresponding author / supervisor / mentor	0	ChemistrySelect	7, e202203396	UGC Care List	2.307	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25



Sl. No.	Yr.of Publ.	Title of the Paper	No.of authors	Role of Applicant	No.of other co - authors	Journal Name	Volume (Issue), pg no. from - to	Journal Type	Impact Factor (I.F)	I.F Doc link	Jrnl. Pub. Link	Self Appraisal Score	Verified API Score
7	2021	Supramolecular association and quantification of intermolecular interactions of 4'-functionalized 2,2':6',2''-terpyridines: Experimental observation and theoretical studies	4	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	1226, 129254	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
8	2021	Anion-dependent structural variations and charge transport property analysis of 4'-(3-pyridyl)-4,2':6',4''-terpyridinium salts	7	Other co-author	4	CrystEngComm	23, 3569-3581	UGC Care List	3.756	<a href="#">View</a>	<a href="#">View</a>	26.13	26.13
9	2021	A combined experimental and theoretical analysis on the solid-state supramolecular assemblies of pent-2-ynol derivatives	6	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	1243, 130813	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
10	2021	Active Bromoaniline–Aldehyde Conjugate Systems and Their Complexes as Versatile Sensors of Multiple Cations with Logic Formulation and Efficient DNA/HSA-Binding Efficacy: Combined Experimental and Theoretical Approach	9	Other co-author	6	ACS Omega	6, 3659-3674	UGC Care List	4.132	<a href="#">View</a>	<a href="#">View</a>	25.75	25.75
11	2020	Supramolecular assemblies involving salt bridges: DFT and X-ray evidence of bipolarity	6	Corresponding author / supervisor / mentor	0	CrystEngComm	22, 8171-8181	UGC Care List	3.756	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
12	2020	Quantitative insights into the crystal structure of a mixed-ligand Co(III) complex: Experimental and theoretical studies	4	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	1216, 128207	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
13	2020	Diverse structural assemblies of a series of ninhydrin derivatives: Quantitative analyses from experimental and theoretical studies	5	Corresponding author / supervisor / mentor	0	Journal of Molecular Structure	1224, 128920	UGC Care List	3.841	<a href="#">View</a>	<a href="#">View</a>	30.25	30.25
14	2020	Novel Pb(II) Complexes: X-Ray Structures, Hirshfeld Surface Analysis and DFT Calculations	5	Other co-author	3	Crystals	10, 568	UGC Care List	2.670	<a href="#">View</a>	<a href="#">View</a>	26.50	26.50
											<b>Total</b>	<b>411.13</b>	

### III-B(i): Publications other than journal articles

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Sl. No.	Yr.of Publ.	Type of Publication	Title of the Chapter	Title of the Book	No.of authors	Name of Publisher	Status of Publisher	ISBN/ISSN No	Doc. Link	Self Appraisal Score	Verified API Score
									Total	None	

### III-B(ii): Referring of Journal Papers from UGC list

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
1	Chemical Data Collections - CDC-D-22-00720	Synthesis, Crystal structure and Hirshfeld surface analysis of (2E)-3-(biphenyl-4-yl)-1-(5-bromothiophen-2-yl) prop-2-en-1-one	2023	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
2	CrystEngComm - CE-ART-01-2023-000091	Insight into polymorphism of the aripiprazole	2023	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
3	CrystEngComm - CE-ART-03-2023-000208	Insights into structural, spectroscopic and hydrogen bonding interactions pattern of nicotinamide-oxalic acid (form I) salt by using experimental and theoretical approach	2023	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
4	Journal of Molecular Structure - MOLSTRUC-D-23-01390R1	Synthesis, non-covalent interactions and chemical reactivity of 1-pentyl-3-phenylquinoxalin-2(1H)-one — Structural and computational studies	2023	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
5	CrystEngComm - CE-ART-01-2022-000094	Structural systematics in the isomorphous ternary crystals comprising 2,2'-dithiodibenzoic acid, 4-halobenzoic acid and dimethylformamide (1:1:1), for halide = chloride, bromide and iodide	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
6	ACS Omega - ao-2022-001599	Supramolecular Self-assembled Synthon Mediated by Multiple Hydrogen Bonds and The Importance of C—S...N Chalcogen Bond in N'-(adamantan-2-ylidene)hydrazide Derivatives: Experimental and Theoretical Study	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
7	ACS Omega - ao-2022-001599.R1	Supramolecular Self-assembly Mediated by Multiple Hydrogen Bonds and the Importance of C—S...N Chalcogen Bond in N'-(Adamantan-2-ylidene)hydrazide Derivatives	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
8	CrystEngComm - CE-ART-02-2022- 000202.R1	Static discrete disorder in the crystal structure of Iododiflunisal: On the Importance of Hydrogen Bond, Halogen Bond and $\pi$ -Stacking Interactions	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
9	Chemical Data Collections - CDC-D-21-00695R1	Synthesis, crystal structure, Hirshfeld surface analysis and bioactivity of the Cu mixed-ligand complex with 4-hydroxybenzoic acid and monoethanolamine	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
10	Journal of Molecular Structure - MOLSTRUC-D-22-05032R1	Effect of the substituted location on luminescent behaviors with Ambroxol moieties: synthesis, crystal structure and Hirshfeld surface	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
11	Journal of Molecular Structure - MOLSTRUC-D-22-01183	Supramolecular interactions in X-ray structures of oxalamides: green synthesis and characterization	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
12	Chemical Data Collections - CDC-D-21-00742	Structural, Spectral, Cytotoxic and Biocatalytic Studies of a Dinuclear Phenoxo Bridged Zn(II) Complex from NNO Donor Tridentate Schiff base	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
13	Journal of Molecular Structure - MOLSTRUC-D-22-03239	Synthesis, characterization of new heterocyclic compound: pyrazolyl hydrazino quinoxaline derivative: 3-[5- (hydroxy1methyl)-1-phenylpyrazol-3-yl]-2-[2, 4, 5-trimethoxybenzylidene] hydrazoneyl-quinoxaline of potent antimicrobial, antioxidant, antiviral, and antitumor activity	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
14	CrystEngComm - CE-ART-01-2022- 000094.R1	Structural systematics in the isomorphous binary co-crystal solvates comprising 2,2'-dithiodibenzoic acid, 4- halobenzoic acid and dimethylformamide (1:1:1), for halide = chloride, bromide and iodide	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
15	CrystEngComm - CE-ART-05-2022-000731	A novel 2-(Aminomethyl)pyridineH <sub>2</sub> PO <sub>4</sub> crystal with second-order nonlinear optical performance	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
16	CrystEngComm - CE-ART-07-2022-000953	Imidazole-based AIEgens for highly sensitive and selective detection of picric acid	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
17	CrystEngComm - CE-ART-07-2022- 000953.R1	Imidazole-based AIEgens for highly sensitive and selective detection of picric acid	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
18	CrystEngComm - CE-ART-08-2022- 001093.R1	Insights into non-covalent interactions, molecular and electronic structures of substituted 1,2-dithiolylum salts: crystallographic visualization, Hirshfeld surface analysis and DFT Calculations	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
19	Journal of Molecular Structure - MOLSTRUC-D-22-02104R2	Decarbonylated bis-phosphine complexes bearing a Fe-Sn bond : NMR spectroscopy, X-Ray Structures, Hirshfeld Surface Analysis and DFT Calculations	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
20	CrystEngComm - CE-COM-10-2022-001466	Elucidating Phase Transition of Eu-based Metal Organic Framework with Intermediate Isolation and Theoretical Calculation	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
21	CrystEngComm Manuscript ID CE-ART-12-2022-001619	Journeys in crystal energy landscapes: actual and virtual structures in polymorphic 5-nitrobenzo[c][1,2,5] thiadiazole	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
22	Molecular Crystals and Liquid Crystals - GMCL-2022-0103	Structure, quantum chemical and in silico molecular docking analysis of some di-orthosubstituted halogenated biphenyls	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
23	CrystEngComm - CE-ART-04-2022-000560	Correlation of Solid-State Order to Optoelectronic Behavior in Heterocyclic Oligomers	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
24	Journal of Molecular Structure - MOLSTRUC-D-22-05032	Effect of the substituted location on luminescent behaviors with Ambroxol moieties: synthesis, crystal structure and Hirshfeld surface	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
25	New Journal of Chemistry Manuscript ID NJ-ART-11-2022- 005487	Structural and computational correlation of Schiff base ligand and its metal complexes: synthesis, solvent effects by post-synthetic modification, computational and sensing studies	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
26	RSC Advances - RA-ART-11-2022-007130	Effect of organic solvents on calcium minodronate crystal morphology in aqueous solution■An experimental and theoretical study	2022	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
27	CrystEngComm - CE-HIG-12-2021-001633	Gd(III)-based metal-organic frameworks and coordination polymers for magnetic refrigeration	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
28	CrystEngComm - CE-COM-02-2021-000237	Size-dependent Solution Mediated Phase Transformation of Piroxicam Monohydrate Particles	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
29	CrystEngComm - CE-ART-04-2021-000458	Predicting molecular isomerism of symmetrical and unsymmetrical N,N'-diphenyl formamidines in the solid-state: crystal structure, Hirshfeld surface analysis, pairwise interaction energy, $\Delta H_{\text{fusion}}$ and $\Delta S_{\text{fusion}}$ correlations	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
30	CrystEngComm - CE-ART-04-2021-000483	An X-ray Investigation in the interactions of $[\text{Co}(\text{en})_3]^{3+}$ with $[\text{Co}(\text{ox})_3]^{3-}$	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
31	CrystEngComm - CE-ART-08-2021-001090	Exploring Cyclohexane/Piperazine-urea Motifs for Spherical Halides (X= Cl- / Br-) Recognition: Effect on Anion Coordination, Photoluminescence, and Morphological Tunability	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
32	CrystEngComm - CE-ART-08-2021-001156	Novel co-crystals with $\pi$ -hole interactions between iodide anions and quinoid rings involving charge transfer	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
33	CrystEngComm - CE-ART-08-2021- 001090.R1	Exploring Cyclohexane/Piperazine-urea Motifs for Spherical Halides (X= Cl- / Br-) Recognition: Effect on Anion Coordination, Photoluminescence, and Morphological Tunability	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
34	New Journal of Chemistry Manuscript ID NJ-ART-07-2021- 003191	Hydrogen Bonding interactions between arsenious acid and Dithiothreitol/ Dithioerythritol at different pH values: A computational study under explicit solvent model	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
35	New Journal of Chemistry Manuscript ID NJ-ART-10-2021- 004852	An insight into triel bonds in O,O'-diarylphosphorodithioates of thallium(I): Experimental and theoretical investigations	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
36	New Journal of Chemistry Manuscript ID NJ-ART-10-2021- 004852.R1	An insight into triel bonds in O,O'-diarylphosphorodithioates of thallium(I): Experimental and theoretical investigations	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
37	New Journal of Chemistry Manuscript ID NJ-ART-10-2021- 004977	Insight into the antimycobacterial and antioxidant potentials of INH-Schiff base complexes and insilico targeting of MtKasB receptor of M.tuberculosis	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
38	Crystal Growth & Design - cg-2021-012664	Cooperativity of halogen- and chalcogen-bonding interactions in the self-assembly of 4-iodoethynyl- and 4,7- bis(iodoethynyl)benzo-2,1,3-chalcogenadiazoles: crystal structures, Hirshfeld surface analysis and crystal lattice energies calculation	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
39	Applied Organometallic Chemistry - aoc.202101367	An investigation on the introduction of pyridine into half-salamo-like ligands and their Co(II) complexes	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
40	Inorganic and Nano-Metal Chemistry - LSRT-2021-0639	One Trinuclear Iron(III) Cluster Containing a Triangular Fe <sub>3</sub> (μ <sub>3</sub> -O) Core: Crystal Structure, Fluorescence and Hirshfeld Surface Analysis	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
41	Journal of Chemical Technology & Biotechnology - JCTB-21-0261	Alternative methods for the synthesis of N-ethyl-Ncytisinothioamide, determining its crystal structure, quantum chemical calculation and antioxidant activity analysis	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
42	Journal of Solid State Chemistry - JSSC-21-152	Synthesis, crystal structure, characterization and DFT theoretical calculation of a new halide bridged Hg(II) polymer: (C <sub>6</sub> H <sub>9</sub> N <sub>2</sub> )[Hg <sub>6</sub> Cl <sub>13</sub> ].H <sub>2</sub> O	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
43	Inorganic and Nano-Metal Chemistry - LSRT-2021-0375	Magneto-structural analysis of Cu(II) complexes sustained by {  Cu <sup>II</sup> O <sup>II</sup> H...}n dimers: A CSD based study	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
44	Journal of Coordination Chemistry - GCOO-2020-0267.R1	Spectroscopic characterizations, DFT studies, thermal behaviour and antimicrobial properties of cobalt(II) organic-inorganic hybrid material based on benzamidinium cation	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
45	Journal of Molecular Structure - MOLSTRUC-D-21-00731	Synthesis, Structure elucidation, DFT calculations, Hirshfeld surface analysis, Energy frameworks and Docking study of 6-Chloro-3-[(4-fluorophenoxy)methyl][1,2,4]triazolo[4,3-b]pyridazine against fungi pathogen	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
46	Journal of Molecular Structure - MOLSTRUC-D-20-03169R2	Three new co-crystals of 2,3,5,6-tetramethyl pyrazin with different substituted aromatic compounds _ Crystal structure, spectroscopy and Hirshfeld analysis	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
47	Inorganic and Nano-Metal Chemistry - LSRT-2021-0412	Application of Zn(II) coordination polymer combined with aspirin in the treatment and nursing of traumatic arthritis	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
48	Advances in Materials Science and Engineering - 5542315	Synthesis, Crystal structure and Hirshfeld surface analysis of a new decavanadate (C <sub>7</sub> N <sub>3</sub> H <sub>20</sub> ) <sub>2</sub> V <sub>10</sub> O <sub>28</sub> .4.21H <sub>2</sub> O	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
49	Journal of Molecular Structure - MOLSTRUC-D-21-00731R1	Synthesis, Structure elucidation, DFT calculations, Hirshfeld surface analysis, Energy frameworks and Docking study of 6-Chloro-3-[(4-fluorophenoxy) methyl] [1,2,4] triazolo [4,3-b]pyridazine against fungi pathogen	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
50	Inorganic and Nano-Metal Chemistry - LSRT-2021-0456	Experimental and quantum mechanical investigation on two N-heterocyclic carbene palladium complexes	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
51	Chemical Data Collections - CDC-D-21-00695	Synthesis, crystal structure, Hirshfeld surface analysis and bioactivity of the Cu complex with 4-hydroxybenzoic acid and monoethanolamine	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
52	Inorganic and Nano-Metal Chemistry - LSRT-2021-0557	Dioxidomolybdenum(VI) complex derived from malonyldihydrazones: Synthesis, characterization and crystal structure	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
53	Journal of the Chinese Chemical Society - jccs.202100509	Synthesis, structural elucidation, Hirshfeld surface analysis, energy Framework, DFT and molecular docking investigations of a new bipyrazolo[1,5-a]pyrimidine derivative Synthesis and characterization of a new bipyrazolo[1,5-a]pyrimidine derivative	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
54	Inorganic and Nano-Metal Chemistry - LSRT-2021-0617	Synthesis and Spectral Analysis of the Cr (II) lapachol Chelate Crystal Complexes using DMC, H2O Mixture	2021	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
55	Journal of Molecular Structure - MOLSTRUC-D-20-03169R1	Three new co-crystals of 2,3,5,6-tetramethyl pyrazin with different substituted aromatic compounds _ Crystal structure, spectroscopy and Hirshfeld analysis	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
56	Journal of Molecular Structure - MOLSTRUC-D-20-01808R1	1,2,4-Triazole-3-Thione Schiff Bases Compounds: Crystal structure, Hirshfeld surface analysis, DFT studies and Biological evaluation	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
57	Journal of Coordination Chemistry - GCOO-2020-0267	Spectroscopic characterizations, DFT studies, thermal behaviour and antimicrobial properties of cobalt(II) organic-inorganic hybrid material based on benzamidinium cation	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
58	Journal of Molecular Structure - MOLSTRUC-D-20-05185R1	Syntheses, Structural Analysis and Characterizations of two novel complexes based of Propane-1, 3-diamine Journal of Molecular Structure	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
59	CrystEngComm - CE-COM-08-2020-001272	A C( $\pi$ -hole)...Cl-Zn tetrel interaction driving a metal-organic supramolecular assembly	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
60	Chemical Data Collections - CDC-D-20-00318	A new good thermal stability hybrid material based on heptamolybdate cluster: Synthesis and structural characterization	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
61	Journal of Molecular Structure - MOLSTRUC-D-20-02405R1	Recent advances in Schiff base metal complexes derived from 4-amoniantipyrine derivatives and their potential applications	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
62	Journal of Molecular Structure - MOLSTRUC-D-20-01807	Pharmaceutical salt of tetrahydroberberine with sulfamic acid prepared via CAHBs	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
63	CrystEngComm - CE-ART-11-2020-001610	Pre-organisation of ligand donor sets modulates the supramolecular structure of bis(pyridyl-imine) silver(I) chelates	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
64	Journal of Molecular Structure - MOLSTRUC-D-20-01807R1	Pharmaceutical salt of tetrahydroberberine with sulfamic acid prepared via CAHBs	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
65	Chemical Data Collections - CDC-D-20-00438	Crystal Structure, Hirshfeld Surfaces and Energy Frameworks of 5,10,15,20-Tetrakis (4-ethylphenyl) porphyrin	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
66	Journal of Molecular Structure - MOLSTRUC-D-20-02405	Recent advances in Schiff base metal complexes derived from 4-amoniantipyrine derivatives and their potential applications	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
67	New Journal of Chemistry Manuscript ID NJ-ART-07-2020- 003567	Solvent induced mononuclear and dinuclear mixed ligand Cu(II) complex: Structural diversity, supramolecular packing polymorphism and molecular docking studies	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
68	Journal of Molecular Structure - MOLSTRUC-D-20-01808	1,2,4-Triazole-3-Thione Schiff Bases Compounds: Crystal structure, Hirshfeld surface analysis, DFT studies and Biological evaluation	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
69	CrystEngComm - CE-ART-11-2020-001610.R1	Pre-organisation of ligand donor sets modulates the supramolecular structure of bis(pyridyl-imine) silver(I) chelates	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00



Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
70	Journal of Molecular Structure - MOLSTRUC-D-20-03160	Synthesis, crystal growth, crystal structure, optical, thermal, biological and NLO studies of heterocyclic compound N-(1,3-benzothiazol-2-yl)-2-methoxybenzamide	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
71	Polyhedron - POLYH-D-20-01207	Isolation of a Telluroxane Cluster [(R <sub>2</sub> TeO)(μ-TeO <sub>2</sub> )(OTeR <sub>2</sub> )] [TeO(OH) <sub>2</sub> ] (R=C <sub>6</sub> H <sub>5</sub> NNC <sub>6</sub> H <sub>4</sub> ) Stabilized by Intra- and Intermolecular Secondary Bonding Interactions: Molecular and Electronic Structure Analysis	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
72	Journal of Molecular Structure - MOLSTRUC-D-20-03024R1	Linear and nonlinear optical properties of innovative synthesis of nickel nanoparticles in polystyrene matrix as a new optical system	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
73	Polyhedron - POLYH-D-20-01207R1	Isolation of a Telluroxane Cluster [(R <sub>2</sub> TeO)(μ-TeO <sub>2</sub> )(OTeR <sub>2</sub> )] [TeO(OH) <sub>2</sub> ] (R=C <sub>6</sub> H <sub>5</sub> NNC <sub>6</sub> H <sub>4</sub> ) Stabilized by Intra- and Intermolecular Secondary Bonding Interactions: Molecular and Electronic Structure Analysis	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
74	Inorganic and Nano-Metal Chemistry - LSRT-2020-0336	A new symmetrical nickel(II) complex with isothiocyanate coordination: Synthesis, crystal structure, Hirshfeld surface analysis, DFT calculation and antibacterial activities	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
75	SN Applied Sciences - SNAS-D-20-01168	Quantum mechanical study to investigate the $\pi$ - $\pi$ interaction between Graphene and liquid crystal molecules	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
76	Journal of Molecular Structure - MOLSTRUC-D-20-03169	Three new co-crystals of 2,3,5,6-tetramethyl pyrazin with different substituted aromatic compounds _ Crystal structure, spectroscopy and Hirshfeld analysis	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
77	Journal of Molecular Structure - MOLSTRUC-D-20-03160R1	Synthesis, crystal growth, crystal structure, optical, thermal, biological and NLO studies of heterocyclic compound N-(1,3-benzothiazol-2-yl)-2-methoxybenzamide	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
78	Polyhedron - POLYH-D-20-00888	A series of 3D Lanthanide coordination polymers: synthesis, luminescence and magnetic properties	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00

Sl. No.	Journal Name	Title of the paper	Year of review submission	Review Invitation Letter link	Review submission document link	Self Appraisal Score	Verified API Score
79	ChemistrySelect - slct.202002237	A Comprehensive Study about Structural, Non-Covalent Interactions and Electronic Insights into N-Aryl Substituted Thiosemicarbazones via SC-XRD and First-Principles DFT Approach	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
80	Inorganic and Nano-Metal Chemistry - LSRT-2020-0424	Crystal structure, IR, TG and magnetic properties of a thiabendazole aqua-Cobalt(II) 4,4'-stilbenedicarboxylate	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
81	Journal of Molecular Structure - MOLSTRUC-D-20-03024	Linear and nonlinear optical properties of innovative synthesis of nickel nanoparticles in polystyrene matrix as a new optical system	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
82	Journal of Molecular Structure - MOLSTRUC-D-20-05185	Syntheses, Structural Analysis and Characterizations of two novel complexes based of Propane-1, 3-diamine Journal of Molecular Structure	2020	<a href="#">View</a>	<a href="#">View</a>	5.00	5.00
					<b>Total</b>	<b>410.00</b>	

## CATEGORY III-C: Research Projects

### III-C (i): Sponsored Project

Sl. No.	Area of the Applicant	Title of the Project	Name of the Funding Agency	Duration (no.of years)	Grant Sanctioned (in Lakhs)	Upload Grant Letter link	Self Appraisal Score	Verified API Score
1	Science	Quantitative analysis of noncovalent interactions of organic solids for photosensitive Schottky barrier diode behavior	Science and Engineering Research Board (SERB)	3	41.47	<a href="#">View</a>	20.00	20.00
						Total	20.00	

### III-C (ii): Consultancy Project

Sl. No.	Area of the Applicant	Title of the Project	Name of the Funding Agency	Duration (in months)	Amount Mobilized	Upload Grant Letter link	Self Appraisal Score	Verified API Score
						Total	None	

### III-C (iii): Projects Outcome/Output

Sl. No.	Area of the Applicant	Type	Title	Level	Doc.No./ Patent No/ Other ref. no	Status (if patent only)	Upload doc.link	Self Appraisal Score	Verified API Score
							Total	None	

### III-D: Research Guidance

Sl. No.	Name of the Student	Degree	Title of the Thesis	Status	Document Link	Self API Score	Verified API Score
1	Anowar Hossain	PhD	Exploration of Supramolecular Self-assemblies of Some Transition Metal Complexes and Organic Ligands in the context of Crystal Engineering	Degree awarded	<a href="#">View</a>	15.00	15.00
2	Tripti Mandal	PhD	Synthesis, Spectroscopic properties and Supramolecular Aspects of Some Transition Metal Complexes with Heterocycle-based Ligands	Degree awarded	<a href="#">View</a>	15.00	15.00
3	Samiul Islam	PhD	Exploring diverse solid-state structural assemblies of some organic compounds and metal complexes in the context of crystal engineering	Ph.D Registered	<a href="#">View</a>	5.00	5.00
4	Prantika Das	PhD	X-ray structural studies and crystal engineering of some selective organic and inorganic compounds: Experimental and theoretical studies	Ph.D Registered	<a href="#">View</a>	5.00	5.00
5	Pratik Dey	PhD	Experimental and theoretical investigations of extended supramolecular networks of organic compounds and metal-organic complexes	Ph.D Registered	<a href="#">View</a>	5.00	5.00
					<b>Total</b>	<b>45.00</b>	

**III-E : Fellowships, Awards and Invited lectures delivered in conferences / seminars****III-E : (i) Fellowship / Award from Academic Bodies/Associations**

Sl. No.	Type	Name of the Fellowship/Award	Name of the Awarding Body/Association	Level	Document Link	Self Appraisal Score	Verified API Score
					Total	None	

**III-E : (ii) Invited Lecture / Paper presented**

Sl. No.	Type	Title of the Lecture/Paper	Name of the Conference/ Seminar/ Workshop	Organized by	Venue	Duration of Seminar/ Workshop	Level	Document Link	Self Appraisal Score	Verified API Score
1	Paper presented	Supramolecular assemblies involving salt bridges: DFT and X-ray evidence of bipolarity	49th National Seminar on Crystallography (49th – NSC)	Indian Crystallographic Association	University of Jammu, Jammu	2 days	National	<a href="#">View</a>	3.00	3.00
								Total	3.00	

**III-E (iii): e-Learning Delivery Process/Material**

Sl. No.	Name of the Module	Name of the Course	Name of the Program	Document Link	Self Appraisal Score	Verified API Score
				Total	None	



**JADAVPUR UNIVERSITY**  
**KOLKATA - 700032**

**SAIKAT KUMAR SETH - Final Report**

<b>Stage / Designation From:</b>	Associate Prof. (Stage 4)
<b>Stage / Designation To:</b>	Professor (Stage 5)
<b>Date of last promotion, ( if any ) :</b>	21-03-2020
<b>Date of eligibility for promotion :</b>	21-03-2023
<b>Assessment Period (no.of years):</b>	3

**API Score Summary**

<b>Category</b>	<b>Period</b>	<b>Self Appraisal Score</b>	<b>Status</b>
I	Yearly	87.56	Criteria Satisfied
II	Assessment Period	135.00	Criteria Satisfied
III	Assessment Period	889.13	Criteria Satisfied
II + III	Assessment Period	1024.13	Criteria Satisfied

*Saikat Kumar Seth*

Signature of Applicant



JADAVPUR UNIVERSITY  
KOLKATA - 700032

## Career Advancement Scheme(CAS) Forwarding Letter

To  
The Registrar  
Jadavpur University

Dear Madam,

Prof./Dr./Mr./Ms. SAIKAT KUMAR SETH, a faculty member in the Department/School of PHYSICS, is applying for promotion under the "Career advancement scheme(CAS)" from Associate Prof. (Stage 4) to Professor (Stage 5).

I forward his/her application for submission to the University and for due consideration.

Thanking you

(Head of the Department/Director of School)

Date: 17.3.23

Seal



Prof. Kalyan Kr. Chattopadhyay  
Professor and Head  
Department of Physics  
Jadavpur University  
Kolkata - 700 032