

Curriculum Vitae of Dr. Md Motin Seikh



Name: Dr. Md Motin Seikh
Designation: Assistant Professor
Date of joining: 12.10.2007
Department: Department of Chemistry
Visva-Bharati
Santiniketan-731235, West Bengal, India
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Details of Academic Qualification

Sl. No	Degree	Year	Subject	University/Institution
1	B. Sc	1997	Chemistry (Hons), Physics, Mathematics	Visva-Bharati University, Santiniketan-731235
2	M. Sc	1999	Inorganic Chemistry (Spl)	Visva-Bharati University, Santiniketan-731235
3	Ph. D	2006	Experimental Investigations of Rare Earth Manganates and Other Oxide Systems	Solid State and Structural Chemistry Unit, Indian Institute of Science (IISc), Bengaluru-560012

Area of expertise/Current Research Interest:

Our research activity is focused on different types of functional transition metal oxide systems. From the technological viewpoint, we are interested in the properties of materials like magnetic, electrical, magnetoelectric, magnetoresistance, thermoelectric, multiferroic, catalysis and electrochemical. The present active research areas are: (i) Synthesis and development of bulk and nanodimensional transition metal oxides of different perovskite and spinel families with special emphasis on structure-property relationship, (ii) Optical properties of nano-sized spinel oxides, (iii) photocatalysis by nanostructured metal oxides, (iv) spin frustration in triangular lattice and (v) spin dynamics in lower dimensional magnetic systems, (vi) Electrochemical performance of nanodimensional oxides, (vii) high entropy oxides and (viii) nanocomposites.

Teaching Experience:

Assistant Professor of Inorganic Chemistry, Visva-Bharati (12.10.2007-present)

Number of research scholars produced and currently working:

Sl. No.	Name of the student	Thesis Title	Degree awarded
1.	Dr. Uma Dutta	<i>Synthesis, Structural and Magnetic Properties of Perovskite-Based Transition Metal Oxides and Some Metal Alloys</i>	20.02.2020
2.	Dr. Prasanta Bandyopadhyay	<i>Spectroscopic and DFT studies of Donor acceptor Organic molecules and Inorganic solids</i>	16.04.2021
3.	Mr. Debamalya Ghosh	<i>Synthesis of ceramic oxides from metal-organic precursors and investigation of their properties</i>	submitted
4.	Mr. Ariful Haque	<i>Synthesis and physical characterization of simple and higher ordered perovskites</i>	working
5.	Mr. Radhamadhab Das	<i>Conventional and high entropy transition metal oxides: design, synthesis and properties</i>	Working
6.	Ms. Sudipa Bhattacharya	<i>Studies on magnetic nanocomposites of strongly correlated electron oxides for emergent physical properties and energy applications</i>	working

Research project:

S. No	Title	Cost in Lakh	Month of submission	Role as PI/Co-PI	Agency
1.	A concerted drive towards ambient pressure synthesis and physical characterization of multiferroic quadruple perovskites $A'A_3B_4O_{12}$	Rs. 34.69753	24/06/2016	Principal Investigator: Dr. Md. Motin Seikh	SERB (DST)

Awards:

S. No	Name of Award	Awarding Agency	Year
1	Prof. K.P. Abraham Medal for best Ph.D. thesis in the area of <i>Materials Chemistry</i>	Indian Institute of Science (IISc), Bangalore	2006
2	CNRS Fellowship, CRISMAT Laboratory, University of Caen.	French Ministry of Education & Research, France	2006-2007
3	Visiting Scientist	Japanese Society for the Promotion of Science (JSPS), Japan	2004
4	Council of Scientific and	Govt. of India	2001

	Industrial Research (CSIR) Senior Research Fellow		
5	Council of Scientific and Industrial Research (CSIR) junior Research Fellow	Govt. of India	1999

Editorial Board Member:

1. American Journal of Modern Physics
(<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=122>)
2. Advances in Nanoparticles
(<https://www.scirp.org/journal/editorialboard.aspx?journalid=1573>)

Research article /Book publication:

1. Kalyan Ghorai, Atanu Panda, Akbar Hossain, Monotosh Bhattacharjee, Malay Chakraborty, Swapan Kumar Bhattacharya, Parthasarathi Bera, Hansang Kim, **Md. Motin Seikh** and Arup Gayen, "Synthesis of exfoliated g-C₃N₄ nanosheet by coupling with nanosized LaNiO₃: An efficient Z-scheme type photocatalyst for reactive black 5 and methylene blue363 degradation under natural sunlight" **J. Rare Earths (in press 2021)**. (Link: <https://doi.org/10.1016/j.jre.2021.04.013>)
2. Ariful Haque, Radhamadhab Das, M. Vasundhara, Debamalya Ghosh, Arup Gayen, ParthaMahata,Asish K. Kundu and **Md. Motin Seikh** "Ambient Pressure Synthesis and Magnetic Properties of La[Cu_{3-x}Mn_x][Mn_{4-y}Ti_y]O₁₂(x = 0 & 1; y = 0.5 & 1) Quadruple Perovskite" **J. Alloys Comps.** 875, 159984 (2021). (Link: <https://doi.org/10.1016/j.jallcom.2021.159984>)
3. Arnab Chatterjee, **Md. Motin Seikh**, Shubhamoy Chowdhury and Rajarshi Ghosh, "Catecholase and catechol cleavage activities of a dinuclear phenoxobridged Cu(II) complex: synthesis, structure and magnetostructural studies" **Inorganica Chim. Acta.** 521, 120345 (2021). (Link: <https://doi.org/10.1016/j.ica.2021.120345>)
4. Kamalesh Pal, Amitava Mukherjee, **Md. Motin Seikh**, Parthasarathi Bera and Arup Gayen, "Synthesis, structure, CO oxidation, and H₂ production activities of CaCu_{3-x}Mn_xTi_{4-x}Mn_xO₁₂ (x = 0, 0.5, and 1.0)" **Ceram. Int.** 47(10), 14798-14808 (2021). (Link: <https://doi.org/10.1016/j.ceramint.2020.10.080>)
5. Ariful Haque, Radhamadhab Das, Debamalya Ghosh, M. Vasundhara, Arup Gayen, Asish K. Kundu and **Md. Motin Seikh**, "Observation of Predominant Long-Range

- Ordering by Overcoming the Magnetic Frustration in Cu-Doped La₂MnCoO₆*, **J. Phys. Chem. C** 125(5), 3088–3101 (2021) (Link: <https://doi.org/10.1021/acs.jpcc.0c09120>)
6. Debamalya Ghosh, Radhamadhab Das, Ariful Haque, Kalyan Ghorai, Arup Gayen, Partha Mahata, Asish K. Kundu and **Md. Motin Seikh**, "Synthesis, Structure and Magnetic Properties of La_{1-x}Ln_xCr_{0.5}Co_{0.5}O₃ (x= 0 and 0.2 & Ln=Pr, Sm and Gd) Perovskites", **J. Magn. Mater.** 523, 167621 (8 ps) (2021). (Link: <https://doi.org/10.1016/j.jmmm.2020.167621>)
 7. Kalyan Ghorai, Atanu Panda, Monotosh Bhattacharjee, Debasish Mandal, Akbar Hossain, Parthasarathi Bera, **Md. Motin Seikh** and Arup Gayen, "Facile synthesis of CuCr₂O₄/CeO₂ nanocomposite: A new Fenton like catalyst with domestic LED light assisted improved photocatalytic activity for the degradation of RhB, MB and MO dyes" **Appl. Surf. Sci.** 536, 147604 (19 ps) (2021). (Link: <https://doi.org/10.1016/j.apsusc.2020.147604>)
 8. Kalyan Ghorai, Monotosh Bhattacharjee, Debasish Mondal, Akbar Hossain, Trilochan Bhunia, Parthasarathi Bera, Tapas Kumar Mandal, **Md. Motin Seikh** and Arup Gayen, "Facile synthesis of CuCr₂O₄/BiOBr composite and its improved Rh-B degradation activity under household visible LED light irradiation" **J. Alloys Compds.** 867, 157947 (21 ps) (2021). (Link: <https://doi.org/10.1016/j.jallcom.2020.157947>)
 9. Debamalya Ghosh, Ananya Pal, Debal Kanti Singha, Susanta Ghosh, Oleg I. Lebedev, **Md. Motin Seikh** and Partha Mahata, "Irregularly-Shaped Zn_{0.6}Mn_{2.4}O₄ Nanoparticles for Supercapacitors and Nitroaromatics Detection" **ACS Appl. Nano Mater.** 3(10), 10105–10114 (2020). (Link: <https://doi.org/10.1021/acsanm.0c02088>)
 10. Vincent Caignaert, Olivier Perez, Philippe Boullay, **Md. Motin Seikh**, Nahed Sakly, Vincent Hardy and Bernard Raveau, "Oxygen over stoichiometry in the 2H-perovskite related structure: The route to a large family of cation deficient Ising chain oxides Sr_{1+y}[(Mn_{1-x}Co_x)_{1-z}□_z]O₃" **J. Mater. Chem. C** 8(41), 14559-14569 (2020). (Link: <https://doi.org/10.1039/D0TC03880F>)
 11. Prasanta Bandyopadhyay and **Md. Motin Seikh**, "Components of the Interaction Energy of Odd-electron Halogen Bond: An ab Initio Study" **Phys. Chem. Chem. Phys.** 22, 15389-15400 (2020). (Link: <https://doi.org/10.1039/D0CP02619K>)
 12. Ariful Haque, Radhamadhab Das, Debamalya Ghosh, O. I. Lebedev, Arup Gayen, Asish K. Kundu and **Md. Motin Seikh**, "Unravelling the role of Bi-substitution on vibronic

- ferromagnetism in $La_{2-x}Bi_xMnCoO_6$ ($x = 0, 0.5$ and 1)". **Magn. Magn. Mater.** 514, 167159 (2020). (Link: <https://doi.org/10.1016/j.jmmm.2020.167159>)*
13. Kamalesh Pal, Arka Dey, Rajkumar Jana, Partha Pratim Ray, Parthasarathi Bera, Lalit Kumar, Tapas Kumar Mandal, Paritosh Mohanty, **Md. Motin Seikh** and Arup Gayen, "Citrate combustion synthesized Al-doped $CaCu_3Ti_4O_{12}$ quadruple perovskite: Synthesis, characterization and multifunctional properties." **Phys. Chem. Chem. Phys.** 22, 3499 - 3511 (2020). (Link: <https://doi.org/10.1039/C9CP05005A>)
 14. Uma Dutta, Oleg I. Lebedev, Asish K. Kundu and **Md. Motin Seikh**, "Bi-doped suppression of antisite disordering and associated magnetic properties of $La_{2-x}Bi_xMnNiO_6$ ($x = 0$ and 1)", **J. Phys.: Condens. Matter** 32, 085803 (2020). (Link: <https://doi.org/10.1088/1361-648X/ab5591>)
 15. Uma Dutta, Ariful Haque, Debamalya Ghosh, M. Mukesh, M. Vasundhara, Natalia E. Mordvinova, Oleg I. Lebedev, Arup Gayen, Asish K. Kundu and **Md. Motin Seikh**, "Facile synthesis and tunable magnetization in carbon encapsulated $Ni_{1-x}M_x$ ($M = Fe, Co$ and Cu ; $0 \leq x \leq 0.5$) ferromagnetic alloy nanoparticles" **Mater. Chem. Phys.** 243, 122566 -9 (2020). (Link: <https://doi.org/10.1016/j.matchemphys.2019.122566>)
 16. Prasanta Bandyopadhyay, Animesh Karmakar, Jyotirmoy Deb, Utpal Sarkar and **Md. Motin Seikh**, "Non-covalent interactions between epinephrine and nitroaromatic compounds: A DFT study" **Spectrochim. Acta A** 228, 117827 (8ps) (2020). (Link: <https://doi.org/10.1016/j.saa.2019.117827>)
 17. Ariful Haque, Ashish Shukla, Uma Dutta, Debamalya Ghosh, Arup Gayen, Partha Mahata, M. Vasundhara, Asish K. Kundu and **Md. Motin Seikh**, "Incompatible magnetic and dielectric properties of $BiCu_{3-x}Mn_xTi_{4-y}M_yO_{12}$ ($x= 0$ & 0.5 ; $y= 1$ & 1.5 and $M= Fe$ & Mn)", **Ceram. Int.** 46, 5907–5912 (2020). (Link: <https://doi.org/10.1016/j.ceramint.2019.11.043>)
 18. Ariful Haque, Debamalya Ghosh, Uma Dutta, Ashish Shukla, Arup Gayen, Partha Mahata, Asish K. Kundu and **Md. Motin Seikh**, "Change in magnetic properties of La_2MnCoO_6 in composite with $CaCu_3Ti_4O_{12}$ ", **J. Magn. Magn. Mater.** 494, 165847 (2020). (Link: <https://doi.org/10.1016/j.jmmm.2019.165847>)
 19. Debamalya Ghosh, Debal Kanti Singha, Oleg I. Lebedev, **Md. Motin Seikh** and Partha Mahata, "A Remarkable Annealing Time Effect on Magnetic Properties of Single Source Coordination Polymer Precursor derived $CoFe_2O_4$

- Nanoparticles*” **New J. Chem.** **43**, 19044 - 19052 (2019). (Link: <https://doi.org/10.1039/C9NJ04550C>)
20. Prasanta Bandyopadhyay, Soumyadip Ray and **Md. Motin Seikh**, “*Unraveling the regioselectivity of odd electron halogen bond formation using electrophilicity index and chemical hardness parameters*” **Phys. Chem. Chem. Phys.** **21**, 26580 - 26590 (2019). (Link: <https://doi.org/10.1039/C9CP05374C>)
21. Prasanta Bandyopadhyay, Rajkumar Jana, Kalishankar Bhattacharyya, Oleg I. Lebedev, Uma Dutta, Utpal Sarkar, Ayan Datta and **Md Motin Seikh**, “*Interaction of a bioactive molecule with surfaces of nanoscale transition metal oxides: experimental and theoretical studies*”, **New J. Chem.** 43(42), 16621-16628 (2019). (Link: <https://doi.org/10.1039/C9NJ03124C>)
22. Uma Dutta, Ariful Haque and **Md. Motin Seikh**, “*Synthesis, structure and magnetic properties of Ti doped La₂MnNiO₆ double perovskite*” **Chimica Techno Acta** **6**, 80-92 (2019). (Link: <https://doi.org/10.15826/chimtech.2019.6.3.01>)
23. Ashish Shukla, Oleg I Lebedev, **Md. Motin Seikh** and Asish K Kundu, “*Structural and Magnetic Characterization of Spin Canted Mixed Ferrite-Cobaltites: LnFe_{0.5}Co_{0.5}O₃ (Ln= Eu and Dy)*” **J. Magn. Magn. Mater.** **491**, 165558-62 (2019). (Link: <https://doi.org/10.1016/j.jmmm.2019.165558>)
24. Debamalya Ghosh, Ananya Pal, Susanta Ghosh, Arup Gayen, **Md Motin Seikh** and Partha Mahata, “*Metal Ion Sensing and Electrochemical Behavior of MOF Derived ZnCo₂O₄*” **Eur. J. Inorg. Chem.** 3076-3083 (2019). (Link: <https://doi.org/10.1002/ejic.201900439>)
25. **Md. Motin Seikh**, Vincent Caignaert, Nahed Sakly, Olivier Perez, Bernard Reveau and Vincent Hardy “*Effect of thermal treatment upon the structure incommensurability and magnetism of the spin chain oxide Sr₃CaMn₂CoO_{9+δ}*” **J. Alloys Compds.** **790**, 572-576 (2019). (Link: <https://doi.org/10.1016/j.jallcom.2019.03.183>)
26. U. Dutta, D. Ghosh, A. Haque, L. Kumar, T. K. Mandal, P. S. Walke, K. Pal, A. Gayen, A. K. Kundu and **Md. Motin Seikh** “*A revisit to the effect of annealing temperature on magnetic properties of LaFe_{0.5}Mn_{0.5}O₃*” **J. Phys.: Condens. Matter** **31**, 225801 (2019). (Link: <https://doi.org/10.1088/1361-648X/ab0b98>)

27. Ashish Shukla, Akash Singh, **Md Motin Seikh** and Asish K. Kundu, “Low temperature magneto-dielectric coupling in nanoscale layered $\text{SmFe}_{0.5}\text{Co}_{0.5}\text{O}_3$ perovskite” **J. Phys. Chem. Solids** 127, 164-168 (2019). (Link: <https://doi.org/10.1016/j.jpcs.2018.12.022>)
28. Vandana Solanki, **Md. Motin Seikh** and Asish K. Kundu, “Influence of chromium in the structural and magnetic properties of $\text{LaCo}_{0.5}\text{Cr}_{0.5}\text{O}_3$ perovskite” **J. Magn. Magn. Mater.** 469, 95-99 (2019). (Link: <https://doi.org/10.1016/j.jmmm.2018.08.038>)
29. U. Dutta, A. Hossain, Pravin S. Walke, D. Ghosh, Natalia E. Mordvinova, O. I. Lebedev, A. Haque, K. Pal, A. Gayen, A. K. Kundu and **Md. Motin Seikh**, “Synthesis, Structure and Magnetic Properties of Nanodimensional $\text{La}_{1-x}\text{Ba}_x\text{Fe}_{0.5}\text{Mn}_{0.5}\text{O}_3$ Perovskites” **J. Alloys Compds.** 777, 1396-1402 (2019). (Link: <https://doi.org/10.1016/j.jallcom.2018.11.101>)
30. S. Maiti, D. Das, K. Pal, J. Llorca, L. Soler, S. Colussi, A. Trovarelli, K. R. Priolkar, P. R. Sarode, K. Asakura, **Md. Motin Seikh** and Arup Gayen, “Methanol steam reforming behavior of sol-gel synthesized nanodimensional $\text{Cu}_x\text{Fe}_{1-x}\text{Al}_2\text{O}_4$ hercynites”, **Appl. Catal. A Gen.** 570, 73-83 (2019). (Link: <https://doi.org/10.1016/j.apcata.2018.11.011>)
31. V. Hardy, V. Caignaert, O. Pérez, L. Hervé, N. Sakly, B. Raveau, **Md. M. Seikh** and F. Damay, “Pretransitional short-range ordering in a triangular lattice of Ising spin chains” **Phys. Rev. B** 98, 144414-9 (2018). (Link: <https://doi.org/10.1103/PhysRevB.98.144414>)
32. B. Raveau, V. Caignaert, V. Hardy and **Md. Motin Seikh**, “Transition metal oxides with triangular metallic sub-lattices: From multiferroics to low dimensional magnets” **Comptes Rendus Chimie** 21, 952-957 (2018). (Link: <https://doi.org/10.1016/j.crci.2018.07.012>).
33. K. Pal, R. Jana, A. Dey, P. P. Ray, **Md M. Seikh** and A. Gayen, “Performance analysis of Fe-doped calcium copper titanate quadruple perovskite in optoelectronic device” **Chem. Phys. Lett.** 709, 110-115 (2018). (Link: <https://doi.org/10.1016/j.cplett.2018.08.052>)
34. K. Pal, K. Ghorai, S. Aggrawal, T. K. Mandal, P. Mohanty, **Md. Motin Seikh** and A. Gayen “Remarkable Ti-promotion in vanadium doped anatase titania for methylene blue adsorption in aqueous medium” **J. Env. Chem. Eng.** 6, 5212–5220 (2018). (Link: <https://doi.org/10.1016/j.jece.2018.08.015>)

35. U. Dutta, D. Ghosh, A. Haque, Pravin S. Walke, N. E. Mordvinova, O. I. Lebedev, K. Pal, A. Gayen, A. K. Kundu and **Md. Motin Seikh**, “*Influence of Ti-doping on the magnetic exchange interaction of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ nanoparticles*”, **J. Magn. Magn. Mater.** *464*, 132–138 (2018). (Link: <https://doi.org/10.1016/j.jmmm.2018.05.057>)
36. Kamallesh Pal, Arka Dey, Partha P Ray, Natalia E Mordvinova, Oleg I Lebedev, Tapas K Mandal, **Md Motin Seikh** and Arup Gayen “*Synthesis, Characterization and Catalytic Activity of Quadruple Perovskite: $\text{CaCu}_{3-x}\text{Mn}_x\text{Ti}_{4-x}\text{Mn}_x\text{O}_{12}$ ($x= 0, 0.5$ and 1.0)*” **ChemistrySelect** *3*(4), 1076-1087 (2018). (Link: <https://doi.org/10.1002/slct.201703034>)
37. **Md. Motin Seikh**, Vincent Caignaert, Olivier Perez, Bernard Raveau and Vincent Hardy, “*Interplay between single-ion magnetism, single-chain magnetism and long-range ordering in the spin chain oxides $\text{Sr}_{4-x}\text{Ca}_x\text{Mn}_2\text{CoO}_9$* ” **J. Mater. Chem. C**, *6*, 3362-3372 (2018). (Link: <https://doi.org/10.1039/C7TC05968J>)
38. Debamalya Ghosh, Uma Dutta, Ariful Haque, Natalia E Mordvinova, Oleg I Lebedev, Kamallesh Pal, Arup Gayen, **Md Motin Seikh** and Partha Mahata, “*Ultra-high sensitivity of luminescent ZnCr_2O_4 nanoparticles toward nitroaromatic explosives sensing*” **Dalton Trans.**, *47*, 5011-5018 (2018). (Link: <https://doi.org/10.1039/C8DT00047F>)
39. Amar S Katkar, Shobhnath P Gupta, **Md Motin Seikh**, Lih-Juann Chen and Pravin S Walke, “*Room-temperature ferromagnetic Cr-doped Ge/ GeO_x core–shell nanowires*” **Nanotechnology** *29*, 235705 (2018). (Link: <https://doi.org/10.1088/1361-6528/aab7a9>)
40. Kamallesh Pal, Rajkumar Jana, Arka Dey, Partha P Ray, **Md Motin Seikh** and Arup Gayen, “*Application of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ based quadruple perovskites as a promising candidate for optoelectronic devices*” **Chem. Phys. Lett.** *699*, 229–233 (2018). (Link: <https://doi.org/10.1016/j.cplett.2018.03.062>)
41. Debamalya Ghosh, Uma Dutta, Ariful Haque, Natalia E.Mordvinova, Oleg I. Lebedev, Kamallesh Pal, Arup Gayen, Partha Mahata, Asish K. Kundu and **Md. Motin Seikh** “*Evidence of Low Temperature Spin Glass Transition in Bixbyite Type FeMnO_3* ” **Mater. Sci. Eng. B** *226*, 206-210 (2017). (Link: <https://doi.org/10.1016/j.mseb.2017.09.022>)
42. Aslam Hossain, Debamalya Ghosh, Uma Dutta, Pravin S Walke, Natalia E Mordvinova, Oleg I Lebedev, Bhavesh Sinha, Kamallesh Pal, Arup Gayen, Asish K Kundu, **Md. Motin**

- Seikh** “*Synthesis, Structure and Magnetic Properties of Nanostructured $La_{1-x}A_xFe_{0.5}Mn_{0.5}O_3$ ($A = Ca, Sr$ and Pb ; $x = 0$ & 0.25) Perovskites*” **J. Magn. Magn. Mater.** 444, 68-76 (2017). (Link: <https://doi.org/10.1016/j.jmmm.2017.07.087>)
43. Prasanta Bandyopadhyay, Barnali Bhattacharya, Koushik Majhi, Prakash Majee, Utpal Sarkar and **Md. Motin Seikh**, “*Benzthiazoline-2-thione (BTT) revisited: An experimental and theoretical endeavor to understand UV-spectra*” **Chem. Phys. Lett.** 686, 88–96 (2017). (Link: <https://doi.org/10.1016/j.cplett.2017.08.038>)
44. **Md. Motin Seikh**, V. Caignaert, O. Perez, B. Raveau and V. Hardy “*Single-ion and single-chain magnetism in triangular spin-chain oxides*” **Phys. Rev. B** 95, 174417 (2017). (Link: <https://doi.org/10.1103/PhysRevB.95.174417>)
45. V. Solanki, S. Das, S. Kumar, **Md. Motin Seikh**, B. Raveau and Asish K. Kundu “*Crucial role of sol–gel synthesis in the structural and magnetic properties of $LaFe_{0.5}(Co/Ni)_{0.5}O_3$ perovskites*” **J. Sol-Gel Sci. Tech.** 82, 536-540 (2017). (Link: <https://doi.org/10.1007/s10971-017-4319-x>)
46. K. R. S. P. Meher, V. Caignaert, **Md. Motin Seikh**, B. Raveau and A Maignan “*Magnetoelectric coupling in ceramic of the Zn-doped $CaBaCo_4O_7$ pyroelectric ferrimagnet*” **Ceram. Int.** 43, 208-211 (2017). (Link: <https://doi.org/10.1016/j.ceramint.2016.09.137>)
47. V. Solanki, O. I. Lebedev, **Md. Motin Seikh**, N. K. Mahato, B Raveau and Asish K. Kundu “*Synthesis and characterization of Co–Ni and Fe–Ni alloy nanoparticles*” **J. Magn. Magn. Mater.** 420, 39-44 (2016). (Link: <https://doi.org/10.1016/j.jmmm.2016.06.087>)
48. **Md. Motin Seikh**, Asish K. Kundu, V. Caignaert and B. Raveau, “*Gigantic effect of iron doping upon magnetism in the “114” magnetoelectric $CaBaCo_4O_7$* ” **J. Alloys and Compd.** 656, 166-171 (2016). (Link: <https://doi.org/10.1016/j.jallcom.2015.08.257>)
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50. Asish K. Kundu, Oleg I. Lebedev, Nadezhda E. Volkova, **Md. Motin Seikh**, Vincent Caignaert, Vladimir A. Cherepanov and Bernard Raveau , “*Quintuple perovskites $Ln_2Ba_3Fe_{5-x}Co_xO_{15-\delta}$ ($Ln = Sm, Eu$): nanoscale ordering and unconventional*

- magnetism*” **J. Mater. Chem. C**, **3**, 5398-5405 (2015). (Link: <https://doi.org/10.1039/C5TC00494B>)
51. Asish K. Kundu, **Md. Motin Seikh** and Pranjal Nautiyal “*Bismuth centred magnetic perovskite: A projected multiferroic*” **J. Magn. Magn. Mater.** **378**, 506-528 (2015). (Link: <https://doi.org/10.1016/j.jmmm.2014.11.044>)
52. B. Raveau and **Md. Motin Seikh**, “*Charge Ordering in Cobalt Oxides: Impact on Structure, Magnetic and Transport Properties*” **Z. Anorg. Allg. Chem.**, **641**, 1385-1394 (2015). (Link: <https://doi.org/10.1002/zaac.201500085>)
53. Pranjal Nautiyal, **Md. Motin Seikh**, Oleg I. Lebedev, Asish K. Kundu, “*Sol-gel synthesis of Fe-Co nanoparticles and magnetization study*” **J. Magn. Magn. Mater.** **377**, 402–405 (2015). (Link: <https://doi.org/10.1016/j.jmmm.2014.10.157>)
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Symposia and Conferences attended

1. **Poster Presentation** entitles "*Complex Magnetic Transition Versus Oxygen Content in the Ordered Oxygen Deficient Perovskite $\text{LnBaCo}_2\text{O}_{5.5\pm\delta}$ ($\text{Ln} = \text{Sm}$ and Eu)* **Md. Motin Seikh**, V. Prelog, V. Caignard, C. Simon and B. Raveau, at **The 11th European Conference on Solid State Chemistry (ECSSC-XI), 2007**, Caen, FRANCE.
2. **Invited talk** on "*Novel Effects of Ionic Radius and Size Disorder on the Electronic and Magnetic Properties of Rare Earth Manganites*" 17th January, 2007, Kalyani University, INDIA.
3. **Invited talk** on "*Phonon Anomaly across the Metal-Insulator Transitions in Manganites and Magnetite*" 6th November, 2006, Göttingen University, GERMANY.
4. **Oxide-06, International Symposium on Recent Developments in Metal Oxides and Related Materials**; January 9-11, 2006, Indian Institute of Science, Bangalore, INDIA.
5. **Oral Presentation** on "*The LSMO thin film fabricated by ion beam sputtering (IBS) method; its steps and terrace*" at "**National Conference on Material Science**" December 22-27, 2004, Tokyo, JAPAN.
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7. **Poster Presentation** entitled “Investigations of the sound velocity across the phase transitions in $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ using Brillouin scattering technique” **Md. Motin Seikh**, C.Narayana, A. K. Sood and C. N. R. Rao at “**Emerging Directions in Chemical Sciences- An International Conference**” November 25-28, 2003, Bangalore, INDIA.
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