



# Editorial : Reviews of Modern Plasma Physics: Volume 6

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## Abstract

This gives editorial of Volume 6 published in 2022 whose papers are from several Topical Collections and stand-alone papers. Authors are speakers of AAPPS-DPP annual conferences 2020 and 2021 and individual submission.

**Keywords** Plasma physics · AAPPS-DPP · RMPP

## 1 Introduction

Reviews of Modern Plasma Physics (RMPP) are the review journal specialized in plasma physics and official journal of AAPPS-DPP. Our journal has six article types, i.e. “Review” broadly reviewing related works all over the world, “Special Topics” focused on one’s/group’s own works, “Tutorial” for beginner-friendly paper, “History” for scientific history, “Chandrasekhar Lecture” and “Plasma Innovation Lecture” for lecture on Laureate’s contribution. Details can be found at <https://www.springer.com/journal/41614/submission-guidelines>.

RMPP editorial board consists (1) “Fundamental” plasma physics (Chief Editor: Taik Soo Hahm, Associate Editors: Patrick H. Diamond, Yasushi Ono), “Basic” plasma physics (Associate Editors: Tomohiko Watanabe, A.A. Mamun), “Applied” plasma physics (Chief Editor: Yi-Kang Pu, Associate Editors: Felipe Iza, Rajdeep S. Rawat), “Laser” plasma physics (Chief Editor: Kunioki Mima, Associate Editors: Amita Das, Zheng Ming Sheng, Hiroo Totsuji), “Space/Geomagnetic” plasma physics (Chief Editor: Yu Lin, Associate Editors: Tohru Hada, Dong-Hun Lee), “Solar and Astro” plasma physics (Chief Editor: Ryoji Matsumoto, Associate Editors:

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Peng-Fei Chen, Jungyeon Cho), and “Magnetic Fusion” plasma physics (Chief Editor: Jiaqi Dong, Associate Editors: Guoyong Fu, Katsumi Ida) and covers all fields of plasma physics.

## 2 Volume 6 publication

While there are relatively selective 10–15 papers in Volume 1 to Volume 5. Volume 6 of RMPP contains 41 papers through strong promotion of topical collections as well as regular submissions (Table 1).

Topical collection “New Aspects of Quantum Plasma Physics (QP)” is organized by A.A. Mamun and published one article in 2021 (Manfredi et al. 2021) and six articles in 2022 (Hossain and Mandal 2022; Mannan 2022; Brodin and Zamanian 2022; Misra and Brodin 2022; Haas and Mahmood 2022; Masood et al. 2022).

Topical collection “Novel Aspects of Dusty Plasma Physics (DP)” is organized by Abhijit Sen and Lin I and published two articles in 2021 (Melzer et al. 2021; Hu and Zhang 2021) and three articles in 2022 (Ratynskaia et al. 2022; Jiang and Du 2022; Bandyopadhyay and Sen 2022).

Topical collection “Nonlinear Processes in Solar-Terrestrial Plasmas (NLST)” is organized by Tohru Hada, Abraham Chian and Ryoji Matsumoto selected from SG and SA speakers in AAPPS-DPP2021 and published four articles in 2022 (Nariyuki 2022; Dominguez and Utz 2022; Chian et al. 2022; Parashar and Matthaeus 2022).

Topical collection “Selected papers from AAPPS-DPP MF1 and MF2 Plasma sessions (MF21)” is organized by Hiroshi Yamada and Jiaqi Dong from MF1 and MF2 speakers in AAPPS-DPP2021 and published four articles in 2022 (Eliseev et al. 2022; Urano 2022; Wang et al. 2022; Shikama 2022).

Topical collection “Selected papers from AAPPS-DPP2021 Basic and Applied Plasma sessions(BA21)” is organized by Gunsu Yun, Yan Feng, Rajdeep S. Rawat, Sudeep Bhattacharjee, and Jianjun Shi selected from Basic and Applied speakers in AAPPS-DPP2021 and published three articles in 2022 (Attri et al. 2022; Gupta 2022; Liu et al. 2022).

Topical collection “Kinetic Alfvén waves in space, solar, and laboratory plasmas(KAW)” is organized by Yu Lin, Fulvio Zonca, De-Jin Wu selected from CD (Kinetic Alfvén Wave) speakers in AAPPS-DPP2021 and published one article in 2022 (Duan et al. 2022).

Topical collection “High energy density physics(HEDP)” is organized by Kunioki Mima, Jie Zhang, Ryosuke Kodama in this field and published one article in 2022 (Sun et al. 2022).

Topical collection “Chandrasekhar Lecture (Chandra)” is lecture series of Chandrasekhar Prize laureates and one article is published in 2022 (Park et al. 2022).

Topical collection “Plasma Innovation Lecture (PI)” is lecture series of Plasma Innovation Prize laureates and first article is published in 2022 (Hori 2022).

Topical collection “U40 winner papers (U40)” is papers of AAPPS-DPP Young Researcher Award winners and published two articles in 2019 (Takahashi 2019; Feng 2019), one in 2020 (Zhong et al. 2020), one in 2021 (Choi 2021) and five in

**Table 1** Review papers published in Volume 6 of RMPP

1st Author	Reference	Article Type	Collection
Golam M. Hossain	(Hossain and Mandal 2022)	Review	QP-2(B)
Katsumi Ida	(Ida 2022)	Review	Regular(F)
Abdul Mannan	(Mannan 2022)	Review	QP-3(B)
Gert Brodin	(Brodin and Zamanian 2022)	Review	QP-4(B)
Amar P. Misra	(Misra and Brodin 2022)	Review	QP-5(B)
Sharmin Sultana	(Sultana 2022)	Review	QP-6(B)
Fernando Haas	(Haas and Mahmood 2022)	Special Topics	QP-7(B)
Fang Shen	(Shen et al. 2022)	Review	Regular(SA)
Muhammad Bilal	(Bilal et al. 2022)	Review	Regular(MF)
P. Rodriguez-Fernandez	(Rodriguez-Fernandez et al. 2022)	Review	Regular(F)
W. Masood	(Masood et al. 2022)	Review	QP-8(B)
Linghua Wang	(Wang 2022)	Review	U40-5(SG)
Keigo Takeda	(Takeda et al. 2022)	Special Topics	U40-6(A)
Zheng-Xiong Wang	(Wang et al. 2022)	Special Topics	U40-7(MF)
Meng Zhou	(Zhou et al. 2022)	Review	U40-8(SG)
Sudeep Bhattacharjee	(Bhattacharjee et al. 2022)	Special Topics	Regular(B)
Pankaj Attri	(Attri et al. 2022)	Review	BA21-1(A)
Hyeon K. Park	(Park et al. 2022)	Chandra	Chandra-7
Siming Liu	(Liu et al. 2022)	Review	Regular(SA)
S. Ratynskaia	(Ratynskaia et al. 2022)	Review	DP-3(B)
Akanksha Gupta	(Gupta 2022)	Review	BA21-2(B)
Yasuhiro Nariyuki	(Nariyuki 2022)	Review	NLST-1(SG)
Ke Jiang	(Jiang and Du 2022)	Special Topics	DP-4(B)
Hajime Urano	(Urano 2022)	Special Topics	MF21-1(MF)
L.G. Eliseev	(Eliseev et al. 2022)	Special Topics	MF21-2(MF)
Nengchao Wang	(Wang et al. 2022)	Special Topics	MF21-3(MF)
Zhongwei Liu	(Liu et al. 2022)	Review	BA21-3(A)
Pintu Bandyopadhyay	(Bandyopadhyay and Sen 2022)	Special Topics	DP-5(B)
Tatanobu Amano	(Amano et al. 2022)	Review	U40-9(SA)
Ji Hyun Shin	(Shin et al. 2022)	Special Topics	Regular(B)
Uwe Czarnetzki	(Czarnetzki and Alves 2022)	Review	Regular(A)
Jeongwoo Lee	(Lee 2022)	Review	Regular(SA)
Santiago V. Dominguez	(Dominguez and Utz 2022)	Review	NLST-2(SG)
Abraham C.-L. Chian	(Chian et al. 2022)	Special Topics	NLST-3(SG)
Souvik Das	(Das et al. 2022)	Review	Regular(SG)
Masaru Hori	(Hori 2022)	Innovation	PI-1 (A)
Muhammad A. Zafar	(Zafar and Jacob 2022)	Review	Regular(A)
Ting Sun	(Sun et al. 2022)	Review	HEDP-1(L)
Taiichi Shikama	(Shikama 2022)	Review	MF21-4(MF)
Suping Duan	(Duan et al. 2022)	Review	KAW-1
Tulasi N. Parashar	(Parashar and Matthaeus 2022)	Review	NLST-4(SG)

2022 (Wang 2022; Takeda et al. 2022; Wang et al. 2022; Zhou et al. 2022; Amano et al. 2022).

There are number of invited papers from AAPPs-DPP2020 talks, (Shen et al. 2022; Rodriguez-Fernandez et al. 2022; Bhattacharjee et al. 2022; Shin et al. 2022; Czarnetzki and Alves 2022; Lee 2022) and from AAPPs-DPP2021 talk (Liu et al. 2022).

An invite paper (Ida 2022) is for comparison with Rodriguez-Fernandez et al. (2022). Three more papers are published in the field of Applied (Zafar and Jacob 2022), Magnetic Fusion (Bilal et al. 2022), and Space (Das et al. 2022).

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